

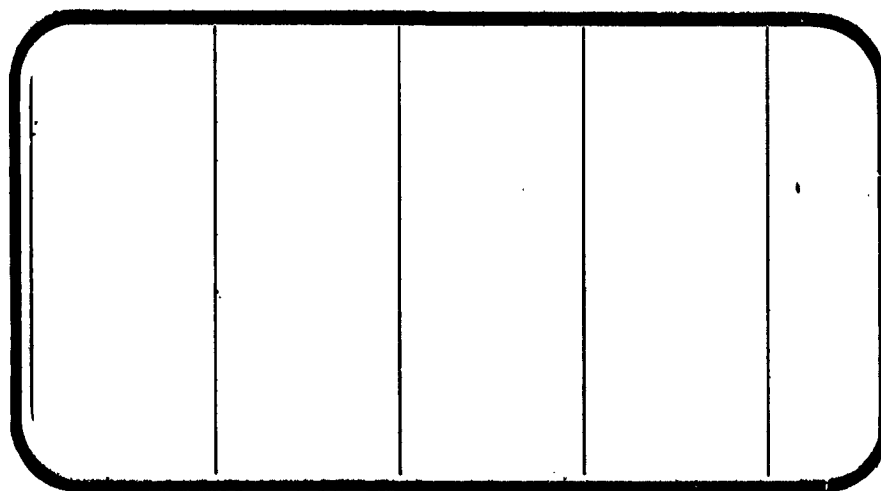


# NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

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(NASA-CR-130626) THERMAL AND ENERGY  
MANAGEMENT LOGIC INVESTIGATIONS UTILIZING  
AN O.030-SCALE MODEL (47-0) OF THE SPACE  
SHUTTLE VEHICLE ORBITAL CONFIGURATION  
1007/B/C/2 IN THE NBS RESEARCH CENTER 11 X 63/16

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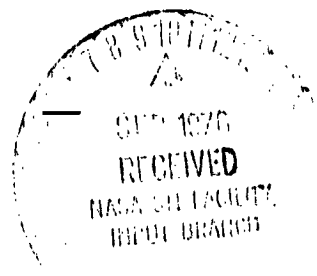
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SPACE SHUTTLE

AEROTHERMODYNAMIC DATA REPORT



JOHNSON SPACE CENTER

HOUSTON, TEXAS

DATA MANAGEMENT services

SPACE DIVISION



CHRYSLER  
CORPORATION

July 1976

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VOLUME 8 OF 13

TERMINAL AREA ENERGY MANAGEMENT  
REGIME INVESTIGATIONS UTILIZING AN 0.030-SCALE  
MODEL (47-0) OF THE SPACE SHUTTLE VEHICLE  
ORBITER CONFIGURATION 140A/B/C/R IN THE  
AMES RESEARCH CENTER 11 X 11 FOOT  
TRANSONIC WIND TUNNEL (0A148)

by

P. J. Hawthorne  
Rockwell International Space Division

Prepared under NASA Contract Number NAS9-13247

by

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New Orleans, La. 70189

for

Engineering Analysis Division  
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National Aeronautics and Space Administration  
Houston, Texas

WIND TUNNEL TEST SPECIFICS:

Test Number: ARC 11-073  
NASA Series Number: OA148  
Model Number: 47-0  
Test Dates: May 5 through May 17, 1975  
Occupancy Hours: 220

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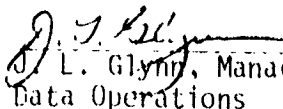
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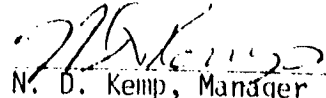
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ABSTRACT

This report documents data obtained in wind tunnel test 0A148.

The objectives of the test series were to:

- 1) obtain pressure distributions, forces and moments over the vehicle  
Orbiter in the terminal area energy management (TAEM) and approach phases  
of flight.
- 2) obtain elevon and rudder hinge moments in the TAEM and approach  
phases of flight.
- 3) obtain body flap and elevon loads for verification of loads  
balancing with integrated pressure distributions.
- 4) obtain pressure distributions near the short OMS pods in the high  
subsonic, transonic and low supersonic Mach number regimes.

Testing was conducted over a Mach number range from 0.6 to 1.4 with  
Reynolds number variations from  $4.57 \times 10^6$  to  $2.74 \times 10^6$  per foot. Model  
angle-of-attack was varied from -4 to 16 degrees and angles of side slip  
ranged from -3 to 8 degrees.



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7	ORBITER FUSELAGE BODY FLAP DEFLECTION 0 DEGREES	ALPHA, MACH PHI, BETA	D	763-864
8	ORBITER FUSELAGE BODY FLAP DEFLECTION 16.3 DEGREES	ALPHA, MACH PHI, BETA	D	865-966
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# INDEX OF DATA FIGURES (Concluded)

FIGURE NUMBER	TITLE	CONDITIONS VARYING	PLOTTED COEFFICIENTS SCHEDULE	PAGES
14	VERTICAL TAIL SPEEDBRAKE DEFLECTION 35 DEGREES	ALPHA, MACH Z/BV, BETA	F	1375-1442

## PLOTTED COEFFICIENTS SCHEDULE:

- A) CY, CYN and CBL versus BETA
- B) C<sub>N</sub>, CA and CLM versus ALPHA
- C) CHEO, CHEI, CHETOT and CHBF versus ALPHA
- D) CP versus X/LB
- E) CP versus X/CW
- F) CP versus X/CV

# NOMENCLATURE

<u>Symbol</u>	<u>Plot Symbol</u>	<u>Definition</u>
$A_b$	AB	total Orbiter base area, ft <sup>2</sup>
$A_i$	Ai	area over which $P_i$ acts, ft <sup>2</sup>
$A_{sb}$	ASB	speed brake base area, ft <sup>2</sup>
$b$	BREF, BW	Orbiter wing span, in
$b_v$	BV	vertical tail reference span, in
$C_{A_u}$	CAU	Orbiter uncorrected axial force coefficient
$C_A$	CA	Orbiter axial force coefficient with sting cavity adjusted to average base pressure
$C_{AF}$	CAF	Orbiter forebody axial force coefficient.
$C_{Asc}$	CASC	Orbiter sting cavity axial force coefficient.
$C_{Du}$	CDU	Orbiter uncorrected drag coefficient
$C_{h_{bf}}$	CHBF	body flap hinge moment coefficient, about hinge line $X_0 = 1532.0$
$C_{h_{ei}}$	CHEI	inner elevon hinge moment coefficient, about hinge line $X_0 = 1387.0$
$C_{h_{eo}}$	CHEO	outer elevon hinge moment coefficient, about hinge line $X_0 = 1387.0$
$C_{h_{eTOT}}$	CHETOT	total right elevon hinge moment coefficient
$C_{L_u}$	CLU	Orbiter uncorrected lift coefficient
$C_l$	CBL	Orbiter rolling moment coefficient, body axis system

# NOMENCLATURE (Continued)

Symbol	Plot Symbol	Definition
$C_m$	CLM	Orbiter pitching moment coefficient with sting cavity adjusted to average base pressure, referenced to Orbiter MRC.
$C_{m_u}$	CLMU	Orbiter uncorrected pitching moment coefficient
$C_{m_F}$	CLMF	Orbiter forebody pitching moment coefficient referenced to orbiter MRC.
$C_{m_{sc}}$	CLMSC	Orbiter sting cavity pitching moment coefficient, referenced to Orbiter MRC
$C_{N_u}$	CNU	Orbiter uncorrected normal force coefficient
$C_N$	CN	Orbiter normal force coefficient with sting cavity adjusted to average base pressure
$C_{N_F}$	CNF	Orbiter forebody normal force coefficient
$C_{N_{sc}}$	CNSC	Orbiter sting cavity normal force coefficient
$C_n$	CYN	Orbiter yawing moment coefficient, body axis system
$C_{p_i}$	CPi	surface tap pressure coefficient, port i, $(P_i - P_\infty)/q$
$C_y$	CY	Orbiter side force coefficient
$C_{[X][Y]}$	$C[X][Y]$	base area force and moment coefficients. The first subscript (post fix) designates the type of coefficient, the second the pressure tap and it's associated area. The symbolic vectors [X] and [Y] are defined below.
<u>[X]=</u>		
A	A	axial force
N	N	normal force
Y	Y	side force
m	LM	pitching moment
n	YN	yawing moment
e	BL	rolling moment

# NOMENCLATURE (Continued)

<u>Symbol</u>	<u>Plot Symbol</u>	<u>Definition</u>
<u>[Y]</u> <sub>ET</sub>		
1,2,3 4,5,6 sc bf	1,2,3 4,5,6 SC BF	areas associated with pressure taps 1 through 6 see figure 2b sting cavity area upper body flap area
$l_b$	LB	Orbiter reference body length, IML nose to $X_0 = 1528.3$ , in.
$l_{REF}$	LREF	longitudinal reference length, Orbiter mean aerodynamic chord, in
	LU/DU	uncorrected lift to drag ratio, CLU/CDU
M	MACH	freestream Mach number
$\phi$	PHI	angular cylindrical coordinate position around Orbiter body - deg.
$P_i$	Pi	pressure at surface tap i, PSF
$P_\infty$	P	freestream static pressure, PSF
$P_t$	PT	freestream total pressure, PSF
q	Q	freestream dynamic pressure, PSF
	RN/L	unit Reynolds number, million per foot
S	SREF	wing reference area, ft <sup>2</sup>
$T_t$	TTR	freestream total temperature, °R
$x_{cp}$	XCP/L	center of pressure location referred to $l_b$
$x_0/L_0$	X/LB	longitudinal location of body surface, fraction of body length

# NOMENCLATURE (Concluded)

Symbol	Plot Symbol	Definition
$x/c$	X/CW	chordwise location on wing surface, fraction of local chord
$x/c_v$	X/CV	chordwise location on vertical tail, fraction of local chord
$z/b$	Z/BV	spanwise location on vertical tail, fraction of vertical tail span
$\eta$	$z'/BW$	spanwise location on wing, fraction of semi span
$x_{mrp}$	XMRP	longitudinal location of moment reference point
$x_T$	XT	longitudinal moment transfer distance from Orbiter balance center to Orbiter MRC, in
$y_{mrp}$	YMRP	lateral location of moment reference point
$z_T$	ZT	vertical moment transfer distance from Orbiter balance center to Orbiter MRC, in
$\alpha$	ALPHA	angle of attack, degrees
$\beta$	BETA	angle of sideslip, degrees
$\delta_{bf}$	BDFLAP	body flap deflection, degrees
$\delta_{eL}$	ELVN-L, L-ELVN	left elevon deflection, degrees
$\delta_{eR}$	ELVN-R, R-ELVN	right elevon deflection, degrees
$\delta_r$	RUDDER	rudder deflection, degrees
$\delta_{sb}$	SPDBRK	speed brake deflection, degrees
$z_{mrp}$	ZMRP	vertical location of moment reference point
	\$\$	mask character used to indicate all possible values for this test 01 through 85



# REMARKS

During the course of the test it was necessary to replumb the scani-  
valves. The resultant time loss necessitated deleting the priority 4 runs  
which incorporated the use of the metric vertical tail.

Data obtained from pressure taps 184, 296 and 347 are suspect due to  
slow leaks noticed while leak checking individual model pressure taps.

Body flap hinge moment data for datasets RE8001 through RE8005 have  
a -15% drift while datasets RE8006 and RE8007 have a +10% drift due to data  
recording system errors. System checks during the remainder of the test  
indicate a system error of less than 4% for body flap hinge moment data.

Rolling moment data has an approximate -.00 bias in the coefficient.  
The reason for this was not determined, but possible sources are fabrication  
tolerances and/or differential stiffness of the left and right elevon  
panels.

Distortion of the instrumented elevon shaft appears to have occurred  
around run 310 due to model assembly difficulties and the maximum loads en-  
countered at these test conditions. A comparison of measured elevon de-  
flection before and after the test with the nominal setting is presented  
below:

<u>Elevon Panel</u>	<u>Nominal</u>	<u>Pre-Test</u>	<u>Post-Test</u>
Inboard right	-10	-9° 36'	-8° 55'
	-4	-3° 34'	-2° 55'
	0	+0° 10'	+1° 02'
	4	+4° 26'	+4° 28'
	10	+10° 32'	+10° 39'
Outboard right	-10	-9° 36'	-8° 15'
	-4	-3° 34'	-2° 20'
	0	+0° 10'	+1° 05'
	4	+4° 26'	+3° 59'
	10	+10° 32'	+10° 18'

\* Inboard only was measured but was the same as outboard panel (see Ref 2)

## CONFIGURATION INVESTIGATED

The Rockwell International model 47-0 Space Shuttle Orbiter Vehicle was utilized in this test series. The model was originally constructed to -140A/B lines, but was modified prior to this test with the addition of the -140C OMS pods, six inch bevelled interpanel elevon gaps and uncovered RCS forward thruster parts. To denote these additions, the additional designations "C" (for -140C OMS pods) and "R" (for RCS thrusters) were added, and the slashes deleted for convenience on Table II (designated "-140 ABCR").

In data sets RE8069 to 085 the RCS thruster ports in the nose were filled reverting the configuration to -140A/B/C modified with body B<sub>26</sub>.

The following nomenclature denotes the model components:

<u>Component</u>	<u>Description</u>
B <sub>26</sub>	140A/B fuselage (VL70-000140A, VL70000140B)
B <sub>70</sub>	140A/B fuselage (VL70-000140A, VL70-000145, VL70-000140B, VL70-000143A, VL70-000139) with RCS thruster parts (VL70-08501, VL70-08502, VL70-08296)
C <sub>9</sub>	140A/B basic canopy (VL70-000140A, VL70-000143A)
E <sub>44</sub>	140A/B elevons (VL70-000200, VL70-006089, VL70-006092) with six inch bevelled interpanel gaps, no flipper door
F <sub>9</sub>	140A/B body flap (VL70-000140B, VL70-000200)
M <sub>16</sub>	OMS-RCS pods for 140C Orbiter
N <sub>28</sub>	OMS basic nozzles
R <sub>5</sub>	basic Orbiter rudder (VL70-000146A, VL70-000095)
V <sub>8</sub>	basic Orbiter vertical tail (VL70-000140A, VL70-000146A)
W <sub>116</sub>	basic 140A/B wing (VL70-000140B, VL70-000200)

CONFIGURATIONS INVESTIGATED (Concluded)

Designated configurations are:

-140ABCR  $\equiv$  B<sub>70</sub> C<sub>9</sub> E<sub>44</sub> F<sub>9</sub> M<sub>16</sub> N<sub>28</sub> R<sub>5</sub> V<sub>8</sub> W<sub>116</sub>

-140 ABC  $\equiv$  B<sub>26</sub> C<sub>9</sub> E<sub>44</sub> F<sub>9</sub> M<sub>16</sub> N<sub>28</sub> R<sub>5</sub> V<sub>8</sub> W<sub>116</sub>

## TEST FACILITY DESCRIPTION

The Ames Research Center Unitary Plan 11- by 11-Foot Transonic Wind Tunnel is a closed-circuit, air-medium, variable-density facility capable of attaining Mach numbers from 0.6 to 1.4 at Reynolds numbers from  $1.7 \times 10^6/\text{ft}$  to  $9.4 \times 10^6/\text{ft}$ . The test section is 22 feet long, and models are installed on internal strain-gauge balances mounted to sting-type support systems.

Shadowgraph and Schlieren photographic equipment is available, and pressure transducer instrumentation is provided.—

Tunnel operating temperature is 580°R. Extended high Reynolds number.. runs are restricted by power availability.

## DATA REDUCTION

Standard NASA/Ames data reduction equations were used to reduce forces, moments, and pressures to coefficient form. Orbiter main balance force and moment coefficients were computed using the following equations:

<u>Symbol</u>	<u>Orbiter main balance measurement</u>
NF	Normal Force
AF	Axial Force
PM	Pitching Moment
YM	Yawing Moment
SF	Side Force
RM	Rolling Moment

$$C_{A_u} = AF / (q S)$$

$$C_{L_u} = C_{N_u} \cos \alpha - C_{A_u} \sin \alpha$$

$$C_{N_u} = NF / (q S)$$

$$C_{D_u} = C_{N_u} \sin \alpha + C_{A_u} \cos \alpha$$

$$C_Y = SF / (q S)$$

$$C_{m_u} = \frac{PM}{q S c} + \frac{C_A \cdot Z_T}{c} - \frac{C_N \cdot X_T}{c}$$

$$C_\ell = \frac{RM}{q S b} + \frac{C_Y \cdot Z_T}{b}$$

$$C_n = \frac{YM}{q S b} - \frac{C_Y \cdot X_T}{b}$$

### Moment Transfer Distances

$$X_T = 0.572 \text{ in.}$$

$$Y_T = 0$$

$$Z_T = 0.450 \text{ in.}$$

The Moment Reference Center about which the data was reduced is located at

	<u>Orbiter (Full Scale)</u>
$X_0$	1076.68
$Y_0$	0
$Z_0$	375.00

Balance coefficients were grouped into datasets RE80\$\$.

## DATA REDUCTION (Continued)

Hinge moments and hinge moment coefficients were computed using the following equations:

Elevon hinge moments (inboard and outboard).

$$HM_{eI} = (HM1-HM2) (M1/D1) + HM1$$

$$HM_{eo} = (HM3-HM4) (M3/D3) + HM3$$

where

$HM_i$  = measured moment on strain gage  $i$

$D1$  = distance between gages 1 and 2, .49335 in.

$D3$  = distance between gages 3 and 4, .45800 in.

$M1$  = moment transfer distance for inboard elevon, .93825 in.

$M3$  = moment transfer distance for outboard elevon, .92250 in.

Elevon hinge moment coefficients

$$\text{Inboard, } C_{HeI} = HM_{eI} / (q S_e c_e)$$

$$\text{Outboard, } C_{Heo} = HM_{eo} / (q S_e c_e)$$

$$\text{Total, } C_{HeTOT} = C_{HeI} + C_{Heo}$$

$S_e$  = elevon reference area, 0.189 ft.<sup>2</sup>

$c_e$  = elevon reference MAC, 2.721 in.

Body flap hinge moment coefficient

$$C_{Hbf} = HM_{bf} / (q S_{bf} c_{bf})$$

$HM_{bf}$  = measured body flap hinge moment

$S_{bf}$  = body flap reference area, 0.12834 ft.<sup>2</sup>

### DATA REDUCTION (Continued)

$c_{bf}$  = body flap reference MAC, 2.541 in.

Hinge moment coefficients are part of datasets RE8X\$\$.

Pressure coefficients for all model orifice pressure measurements were computed using this equation:

$$C_{p_i} = (P_i - P_\infty)/q$$

where  $P_i$  = pressure at model orifice  $i$

$P_\infty$  = tunnel static pressure

$q$  = tunnel dynamic pressure

Other data reduction constants include:

$S$  = wing reference area, 2.4210 ft.<sup>2</sup>

$c$  = wing reference chord, 14.2443 in.

$b$  = wing reference span, 28.1004 in.

After the data had been reduced to coefficient form by NASA/AMES, DMS interpolated it to nominal  $\alpha$ 's and  $\beta$ 's. Then 2 types of base and sting cavity area coefficients were calculated. When they are applied 3 types of balance coefficient data exists. These can be distinguished by the last subscript (symbolic name) or postfix (mnemonic name). The key is given below

- U ~ uncorrected coefficients.
- ~ coefficients with sting cavity pressure corrected to base pressure (without a suffix).
- F ~ forebody coefficients with the base area pressure corrected to freestream pressure.

### DATA REDUCTION (Continued)

Only the correction coefficients associated with base pressure tapes 1 through 4 were applied to the longitudinal orbiter coefficients.

Figure 2b illustrates the base area associated with each pressure tap. Alphabetic characters bf and sc designate body flap and sting cavity areas, respectively. Base area coefficient names have a numeric character which designates the pressure tap number. Base coefficients for vertical tail areas 5 and 6 were calculated but not applied to the total orbiter coefficients. Base area coefficient values are tabulated in the appendix. A detailed derivation of these coefficients follows. It is concluded by a matrix of base area geometric properties.

The orbiter sting cavity force and moment coefficients were computed as:

$$\begin{aligned}C_{A_{sc}} &= \frac{(C_{p2} - C_{p1}) A_1}{S} \\C_{N_{sc}} &= \frac{(C_{p2} - C_{p1}) A_1 \tan 12.55^\circ}{S} \\C_{m_{sc}} &= C_{A_{sc}} \frac{Z_t}{c} - C_{N_{sc}} \frac{x_{sc}}{c}\end{aligned}$$

The orbiter force and moment coefficients corrected for the difference between balance cavity pressure and orbiter base pressure:

$$\begin{aligned}C_A &= C_{A_U} - C_{A_{sc}} \\C_N &= C_{N_U} - C_{N_{sc}} \\C_m &= C_{m_U} - C_{m_{sc}}\end{aligned}$$

These orbiter coefficients are part of datasets KE80\$\$.



# DATA REDUCTION (Continued)

Orbiter base force and moment coefficients were calculated as follows:

Upper base area

$$C_{N2u} = -(C_{p2} A_{2u} \tan 16^\circ)/S$$

$$C_{A2u} = -(C_{p2} A_{2u})/S$$

$$C_{m2u} = C_{A2u} \frac{Z_{2u}}{c} - C_{N2u} \frac{X_{2u}}{c}$$

Lower base area

$$C_{N2g} = -(C_{p2} A_{2g} \tan 10^\circ)/S$$

$$C_{A2g} = -(C_{p2} A_{2g})/S$$

$$C_{m2g} = C_{A2g} \frac{Z_{2g}}{c} - C_{N2g} \frac{X_{2g}}{c}$$

Total base area,  $A_2$

$$C_{N2} = C_{N2u} + C_{N2g}$$

$$C_{A2} = C_{A2u} + C_{A2g}$$

$$C_{m2} = C_{m2u} + C_{m2g}$$

OMS pod base area,  $A_3$

(This assumes the surface is perpendicular to the orbiter X-axis)

$$C_{A3} = -(C_{p3} A_3)/S$$

$$C_{m3} = C_{A3} \frac{Z_3}{c}$$

OMS pod base area,  $A_4$

(This assumes the surface is perpendicular to the orbiter X axis)

# DATA REDUCTION (Continued)

$$C_{A4} = -(C_{p4} A_4)/S$$

$$C_{m4} = C_{A4} \frac{Z_4}{c}$$

Coefficients for the above areas are grouped into datasets EE8D\$\$.

Upper surface of body flap

$$C_{A_{bf}} = \frac{-C_{p_{bf}} A_{bf}}{S} \sin (\delta_{bf} + 6.88^\circ)$$

$$C_{N_{bf}} = \frac{-C_{p_{bf}} A_{bf}}{S} \cos (\delta_{bf} + 6.88^\circ)$$

$$C_{m_{bf}} = \frac{C_{A_{bf}} Z_{bf}}{c} - \frac{C_{N_{bf}} X_{bf}}{c}$$

where:

$$C_{p_{bf}} = \frac{C_{p200} + C_{p201} + C_{p204} + C_{p205}}{4}$$

The orbiter force and moment coefficients adjusted to free stream pressure (forebody coefficients).

$$C_{A_F} = C_{A_u} - \left( \frac{-C_{p1} A_1}{S} + \sum_{i=2}^4 C_{A_i} + C_{A_{bf}} \right)$$

$$C_{N_F} = C_{N_u} - (C_{N2} + C_{N_{bf}})$$

$$C_{m_F} = C_{m_u} - \left( \sum_{i=2}^4 C_{m_i} + C_{m_{bf}} \right)$$

These orbiter coefficients are part of datasets KE8O\$\$.

Vertical tail "undercarriage" area,  $A_5$

Top Segment:

$$C_{N5t} = (C_{p5} A_{5t} \tan 63.75^\circ)/S$$

DATA REDUCTION (Continued)

$$C_{A5t} = - (C_{p5} A_{5t})/S$$

$$C_{m5t} = C_{A5t} \frac{Z_{5t}}{c} - C_{N5t} \frac{X_{5t}}{c}$$

Middle Segment:

$$C_{N5m} = (C_{p5} A_{5m} \tan 26.1426^\circ)/S$$

$$C_{A5m} = - (C_{p5} A_{5m})/S$$

$$C_{m5m} = C_{A5m} \frac{Z_{5m}}{c} - C_{N5m} \frac{X_{5m}}{c}$$

Bottom Segment:

$$C_{N5b} = (C_{p5} A_{5b} \tan 21.94^\circ)/S$$

$$C_{A5b} = - (C_{p5} A_{5b})/S$$

$$C_{m5b} = C_{A5b} \frac{Z_{5b}}{c} - C_{N5b} \frac{X_{5b}}{c}$$

Total area,  $A_5$ :

$$C_{N5} = C_{N5t} + C_{N5m} + C_{N5b}$$

$$C_{A5} = C_{A5t} + C_{A5m} + C_{A5b}$$

$$C_{m5} = C_{m5t} + C_{m5m} + C_{m5b}$$

Vertical Tail base area,  $A_6$ :

Segment above rudder

$$C_{N6u} = (C_{p6} A_{6u} \tan 63.75^\circ)/S$$

$$C_{A6u} = (C_{p6} A_{6u})/S$$

$$C_{m6u} = C_{A6u} \frac{Z_{6u}}{c} - C_{N6u} \frac{X_{6u}}{c}$$

# DATA REDUCTION (Continued)

Rudder/Speed brake base:

$$C_{A6_x} = C_{p6} A_{6_y} [\sin (0 - 55.1667^\circ) \cos 55.1667^\circ + \cos (0 - 55.1667^\circ) \sin 55.1667^\circ \cos (\delta r)]/S$$

$$C_{N6_x} = C_{p6} A_{6_y} [\sin (0 - 55.1667^\circ) \sin 55.1667^\circ - \cos (0 - 55.1667^\circ) \cos 55.1667^\circ \cos (\delta r)]/S$$

$$C_{Y6_x} = C_{p6} A_{6_y} \cos (0 - 55.1667^\circ) \sin \delta r/S$$

$$C_{m6_x} = [C_{A6_y} (Z_{6_x}) - C_{N6_x} (X_{6_y})]/c$$

$$C_{x6_x} = [C_{Y6_y} (Z_{6_x})]/b$$

$$C_{n6_x} = -[C_{Y6_x} (X_{6_y})]/b$$

$$\theta = \tan^{-1} \left[ \frac{5.456791 + .573209 \cos \left( \frac{\delta_{SB}}{2} \right)}{3.797715 - .823715 \cos \left( \frac{\delta_{SB}}{2} \right)} \right]$$

$$A_{6_x} = A_{6_y} / \sin \theta$$

Total area,  $A_6$ :

$$C_{A6} = C_{A6u} + C_{A6x}$$

$$C_{N6} = C_{N6u} + C_{N6x}$$

$$C_{Y6} = C_{Y6y}$$

$$C_{m6} = C_{m6u} + C_{m6x}$$

$$C_{x6} = C_{x6y}$$

$$C_{n6} = C_{n6y}$$

Vertical tail area coefficient data are grouped into datasets GERD\$\$.

# BASE GEOMETRIC PROPERTIES MATRIX

DATA REDUCTION (Continued)

Description	Sub- script	Area A - ft. <sup>2</sup>	Distance between Centroid and VRC	
			vertical Z - in.	longitudinal X - in.
Sting cavity	sc	0.076699	0.45	12.199
Body flap upper surface	bf	0.128	- 2.64	13.659
Orbiter balance cavity	1	0.076699	0.45	12.199
Orbiter base orifice 2 lower	2l	0.133889	- 1.32	12.677
Orbiter base orifice 2 upper	2u	0.0818055	2.07	12.384
Lower OMS pod	3	0.030472	2.68	NA
Upper OMS pod	4	0.074166	3.63	NA
Vertical tail "undercarriage" bottom	5b	0.003565	4.612	12.395
Vertical tail "undercarriage" middle	5m	0.002610	5.336	14.079
Vertical tail "undercarriage" top	5t	0.000341	5.97	15.185
Vertical tail above rudder	6u	0.000798	12.656	18.482
Base area of speed brake	6x	Varies with speed brake deflection		

NOTES: Sting cavity and Orbiter balance cavity are synonymous.

NA - not applicable.

# DATA REDUCTION (Continued)

$\delta_{sb}$	$\Lambda_{0g}$ ft <sup>2</sup>
0	0.0066036
25	0.0456000
35	0.0621000
55	0.0950800
85	0.1551400
$X_{6g} = 15.045 + 1.442277 [1 - \cos (\delta_{sb}/2)]$	
$Z_{6g} = 9.755 + 0.501827 [1 - \cos (\delta_{sb}/2)]$	

Standard DMS loads cycle test procedures were used to process the 0A148 pressure data. First numerous pressure distribution plots were released. Analysis of these produced bad pressure data list. This list is reproduced below:

# DATA REDUCTION (Continued)

## OA148 Bad Pressure Data

Component	Dataset No.	Tap No.	$\beta$	$\alpha$
Fuselage (B)	1	143	4	-4
	1	148	4	-4
	1	150	4	-4
	1	152	4	-4
	1	186	4	-4
	1	187	4	-4
	1	189	4	-4
	1	191	4	-4
	1	193	4	-4
Lower Wing (L)	1 → 7	231	ALL	ALL
	1 → 85	290	ALL	ALL
	1	316	4	-4
	1	317	4	-4
	1	337	4	-4
	1	338	4	-4
	1	358	4	-4
	1	378	4	-4
	1	379	4	-4
Upper Wing (U)	1 → 7	247	ALL	ALL
	1	357	4	-4
Body Flap (F)	24	205	-4	12
Speed Brake (K)	1 → 85	822	ALL	ALL
Vertical Tail (V)	8	443	ALL	ALL
	ALL	1444	ALL	ALL
	79	1453	-4	-4
	79	1454	-4	-4

Note: Wind tunnel pressure data tabulated in the appendix have the original bad data values.

## DATA REDUCTION (Continued)

These points were eliminated from further processing. The remaining data were interpolated to nominal alpha and beta values. Processing was completed with the release of a magnetic tape containing the final interpolated pressure coefficients.

This report contains plots and tabular listings for both force and pressure data. Plotted force data illustrates lateral-directional, longitudinal and hinge moment characteristics of the configuration tested. Plotted pressure data illustrates the effect of several control deflections and attitude changes on local pressure distributions. The multiple volume appendix contains a tabulated listing of the basic force and pressure data. Listing of the interpolated base area coefficients is also included. The plotted and tabulated data are arranged in the following manner:

VOLUME NO.	CONTENTS
1	Force data plots showing lateral-directional longitudinal and hinge moment characteristics.
2	Plots illustrating the effect of control surface deflections on fuselage, wing and vertical tail pressure distributions.



# DATA REDUCTION (Concluded)

VOLUME  
NO.

## CONTENTS

3

### Tabulated Force Data

<u>Dataset</u>	<u>Data type</u>
RE80\$\$	source balance coefficients
RE8X\$\$	source hinge moment coefficients
RE8Y\$\$	source base pressure coefficients
KE80\$\$	interpolated balance coefficients adjusted for cavity pressure and forebody coefficients
EE8D\$\$ FE8D\$\$	interpolated base and cavity area coefficients
GE8D\$\$	interpolated vertical tail base area coefficients

### Tabulated Pressure Data

	<u>Component</u>	<u>Fourth Character*</u>	<u>Page</u>
4, 5	orbiter fuselage	B	1
6,7,8	lower wing	L	1271
9,10,11	upper wing	U	3147
12	upper body flap	F	5405
12	lower body flap	G	5774
13	speed brake	K	6143
13	vertical tail	V	6547

\* The fourth character in each dataset identifier (i.e., XE8BXX, B for Fuselage) represents the individual component.

## REFERENCES

1. SD75-SH-0106, "Pretest Information for OA148 of the 0.03-Scale 47-0 Pressure Loads Space Shuttle Model in the 11 x 11 Foot Leg of the NASA/ARC Unitary Plan Wind Tunnel," April 18, 1975.
2. MG-75-07-11, Rockwell International Corporation Internal Letter: "Model design Dimensional Varification Task 36: Elevon Deflection Angle Check of the 0.03-Scale SSV Model 47-0 (140A/B Configuration)". SAS/WTO/75-283, July 29, 1975.

TABLE I

[illegible]

1950-1951



TABLE II. - Continued.

TEST: 02A 148		DATA SET RUN NUMBER COLLATION SUMMARY												DATE: 2007-10-07			
DATA SET IDENT. FLAG		TEST IDENTIFICATION		TEST COLLATION SUMMARY												MACRO USERS	
		$\alpha$	$\beta$	$\gamma$	$\delta$	$\epsilon$	$\zeta$	$\eta$	$\theta$	$\iota$	$\kappa$	$\lambda$	$\mu$				
REF028	140 ABCRZ	B	D	-10	35	163	10	0	175	176	177	178	179	180	1.4		
029		A	D						181	182	183	184	185		125		
030		A	D						186	187	188	189	190		11		
031		A	D						191	192	193	194	195		0.9		
032		A	C						196	197	198	199	200		0.6		
033	140 ABCRZ	B	D	-10	35	163	0	10	201	202	203	204	205	206	1.4		
034		A	D						207	208	209	210	211		125		
035		A	D						212	213	214	215	216		11		
036		A	D						217	218	219	220	221		0.9		
037		A	C						222	223	224	225	226		0.6		
038	140 ABCRZ	B	D	-10	35	163	10	10	227	228	229	230	231	232	1.4		
039		A	D						233	234	235	236	237		125		
040		A	D						238	239	240	241	242		1.1		
041		A	D						243	244	245	246	247		0.9		
042		A	C						248	249	250	251	252		0.6		
COEFFICIENTS																	
SCHEMATIC																	

TABLE II. - Continued.

TEST: 04 148		DATA SET RUN NUMBER COLLATION SUMMARY										DATE: Post-Test	
DATA SET IDENTIFIER	TIME SLOTTION	X										Y	
		A	B	C	D	E	F	G	H	I	J	K	L
043	40 1312	A	0	0	SS 225	10	10	233	264	282	286	287	0.9
044		A	0					258	269	264	264	262	0.6
045	40 1312	A	0	0	SS 225	4	4	713	264	765	266	267	0.9
046		A	0					268	269	270	271	272	0.6
047	40 1312	B	0	10	SS 163	4	4	273	274	275	276	277	1.4
048		A	0					279	280	281	282	283	1.25
049		A	0					284	285	286	287	288	
050		A	0					289	290	291	292	293	0.9
051		A	0					294	295	296	297	298	0.6
052	40 1312	B	0	10	SS 163	4	4	299	300	301	302	303	1.4
053		A	0					304	305	306	307	308	1.25
054		A	0					309	310	311	312	313	
055		A	0					314	315	316	317	318	0.9
056		A	0					319	320	321	322	323	0.6

COEFFICIENTS

COEFFICIENTS

NASA-HSFC-NAE

TABLE II. - Continued.

TEST: CA 4E		DATA SET RUN NUMBER COLLATION SUMMARY										DATE: 2-1-55	
DATA SET IDENTIFIER	DESCRIPTION	X										MACH NUMBERS	
		A	B	C	D	E	F	G	H	I	J	1	2
00000	0000000000	B	D	10	85	4		328	326	327	328	320	320
00001		A	D					331	322	323	324	325	325
00002		A	D					332	327	328	329		
00003		A	D					333	328	329	330		
00004		A	D					334	329	330	331		
00005		A	D					335	330	331	332		
00006		B	D	-5	85	13	-4	351	352	353	354	355	355
00007		A	D					356	357	358	359		
00008		A	D					360	361	362	363		
00009		A	D					364	365	366	367		
00010		A	D					368	369	370	371		
00011		A	D					372	373	374	375		
00012		A	D										
00013		A	D	0	85	13	-4	376	377	378	379		
00014		A	D					380	381	382	383		
00015		A	D	0	85	13	-10	384	385	386	387		
00016		A	D					388	389	390	391		

COEFFICIENTS

α & β  
SCHEMATIC

RECEIVED



TABLE II. - Concluded.

TEST DATA		DATA SET RUN NUMBER COLLATION SUMMARY										DATE: 7-20-76		TEST	
TEST NUMBER		TEST NAME										TEST NUMBER		TEST NAME	
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COEFFICIENTS

$$F_p = 0.06 \quad x = -4.0816$$

$$F_p = 0.06 \quad x = -4.0812$$

$$-4.046 \quad x = 4.12$$

$$-4.046 \quad x = 4$$

VASA-WSC-NAF

TABLE III  
MODEL DIMENSIONAL DATA

MODEL COMPONENT : BODY - B<sub>26</sub>

GENERAL DESCRIPTION : Configuration 140A/B orbiter fuselage

NOTE: B<sub>26</sub> is identical to B<sub>24</sub>, except underside of fuselage has been  
refaired to accept W<sub>116</sub>.

MODEL SCALE: 0.030 MODEL DRAWING: SS-A00147, Release 12

DRAWING NUMBER : VI:70-000143B, -000200, -000205, -006089, -000145  
VI:70-000140A, -000140B

DIMENSIONS :	FULL SCALE	MODEL SCALE
Length (OML: Fwd Sta. X <sub>0</sub> = 235), In.	1293.3	38.799
Length (IML: Fwd Sta X = 238), In.	1290.3	38.709
Max Width (@ X <sub>0</sub> = 1528.3), In.	264.0	7.920
Max Depth (@ X <sub>0</sub> = 1464), In.	250.0	7.500
Fineness Ratio	0.264	0.264
Area - ft <sup>2</sup>		
Max. Cross-Sectional	340.88	0.3068
Planform		
Wetted		
Base		

TABLE III (Continued)

MODEL COMPONENT : BODY - B<sub>70</sub>

GENERAL DESCRIPTION : Configuration 140A/B orbiter fuselage with forward fuselage RCS thruster ports, otherwise B<sub>70</sub> is identical to B<sub>36</sub>.

MODEL SCALE: 0.030

DRAWING NUMBER : VL70-000140A, -000140B, -000143E, -000145, -000200, VL70-000205, -006089, -008501, -008502, -008296

DIMENSIONS :	FULL SCALE	MODEL SCALE
Length (OML: Fwd Sta $X_0=235$ ), In.	1293.3	38.799
Length (IML: Fwd Sta $X_0=238$ ), In.	1290.3	38.709
Max Width (@ $X_0 = 1528.3$ ), In.	264.0	7.920
Max Depth (@ $X_0 = 1464$ ), In.	250.0	7.500
Fineness Ratio	0.264	0.264
Area - Ft <sup>2</sup>		
Max. Cross-Sectional	340.88	0.3068
Planform		
Wetted		
Base		

TABLE JII (Cont'd)

MODEL COMPONENT : CANOPY - C<sub>9</sub>GENERAL DESCRIPTION : Configuration 3A. Canopy used with fungicide11.26.MODEL SCALE: 0.030MODEL DWG: 88-A00147, Release 12DRAWING NUMBER : V170-000143A

## DIMENSIONS .

## FULL SCALE

## MODEL SCALE

Length ( $X_0 = 434.643$  to  $578$ ), In. 143.357 4.301Max Width ( $\omega$   $X_0 = 513.127$ ), In. 152.412 4.572Max Depth ( $\omega$   $X_0 = 485.0$ ), In. 25.00 0.750

Fineness Ratio

Area

Max. Cross-Sectional

Planform

Wetted

Base

TABLE III (Cont'd)

MODEL COMPONENT ELEVON -  $E_{44}$

GENERAL DESCRIPTION 6.0 In. E.S. ramp machined into  $E_{44}$  elevon.  
Flipper doors centerbody pieces, and tipcords are not simulated.  
(Data are for one of two sides.)

MODEL SCALE: 0.030

DRAWING NUMBER \_\_\_\_\_

DIMENSIONS	FULL SCALE	MODEL SCALE
Area - $\text{ft}^2$	<u>210.0</u>	<u>0.189</u>
Span (equivalent) , In.	<u>349.2</u>	<u>10.476</u>
Inb'd equivalent chord, In.	<u>118.0</u>	<u>3.54</u>
Outb'd equivalent chord , In.	<u>55.19</u>	<u>1.656</u>
Ratio movable surface chord. total surface chord	<u>          </u>	<u>          </u>
At Inb'd equiv. chord	<u>0.2096</u>	<u>0.2096</u>
At Outb'd equiv. chord	<u>0.4004</u>	<u>0.4004</u>
Sweep Back Angles, degrees	<u>          </u>	<u>          </u>
Leading Edge	<u>0.00</u>	<u>0.00</u>
Trailing Edge	<u>- 10.056</u>	<u>- 10.056</u>
Hingeline	<u>0.0</u>	<u>0.0</u>
(Product of Area & $\bar{c}$ ) <sub>3</sub>	<u>          </u>	<u>          </u>
Area Moment (Hatched $\bar{c}$ product) , $\text{ft}^3$	<u>1587.25</u>	<u>0.0429</u>
Mean Aerodynamic Chord, In.	<u>90.7</u>	<u>2.721</u>

TABLE III (Cont'd)

MODEL COMPONENT : BODY FLAP - W<sub>9</sub>

GENERAL DESCRIPTION : Configuration 140A/B

MODEL SCALE: 0.030

DRAWING NUMBER : VI70-000140B, -000200

DIMENSIONS :	FULL SCALE	MODEL SCALE
Length (Chord), In.	<u>84.7</u>	<u>2.541</u>
Max Width , In.	<u>262.308</u>	<u>7.869</u>
Max Depth , In.	<u>23.00</u>	<u>0.690</u>
Fineness Ratio	<u></u>	<u></u>
Area - Ft <sup>2</sup>	<u></u>	<u></u>
Max. Cross-Sectional	<u></u>	<u></u>
Planform	<u>142.60</u>	<u>0.128</u>
Wetted	<u></u>	<u></u>
Base	<u>41.90</u>	<u>0.0377</u>

TABLE III (Cont'd)

MODEL COMPONENT : OMS POD - M<sub>14</sub>

GENERAL DESCRIPTION : Configuration 140C orbiter OMS pod - short pod.  
External contour is to referenced drawings with 1/2" added to simulate  
TPS.

MODEL SCALE: 0.015

DRAWING NUMBER : VI70-008401, -008410

DIMENSIONS :	FULL SCALE	MODEL SCALE
Length (OMS Fwd Sta $X_0 = 1310.5$ ), In.	<u>258.50</u>	<u>7.755</u>
Max Width (@ $X_0 = 1511$ ), In.	<u>136.8</u>	<u>4.104</u>
Max-Depth (@ $X_0 = 1511$ ), In.	<u>74.70</u>	<u>2.241</u>
Fineness Ratio	<u>2.484</u>	<u>2.484</u>
Area - Ft <sup>2</sup>	<u></u>	<u></u>
Max. Cross-Sectional	<u>58.865</u>	<u>0.053</u>
Planform	<u></u>	<u></u>
Wetted	<u></u>	<u></u>
Base	<u></u>	<u></u>

TABLE III (Cont'd)

MODEL COMPONENT: ~~NOZ~~ OMS NOZZLES - N<sub>28</sub>

GENERAL DESCRIPTION: Configuration 140A/B orbiter OMS nozzles.

MODEL SCALE: 0.030

DRAWING NUMBER: VL70-000140A (Location), SS-A00106, Release 9 (Contour)

DIMENSIONS:		FULL SCALE	MODEL SCALE
MACH NO.			
Length - In.			
	Gimbal Point to Exit Plane		
	Throat to Exit Plane		
Diameter - In.			
	Exit		
	Throat		
	Inlet		
Area - ft <sup>2</sup>			
	Exit		
	Throat		
Gimbal Point (Station) - In.			
Left	Nozzle		
	X <sub>0</sub>	1518.0	45.54
	Y <sub>0</sub>	- 88.0	- 2.64
	Z <sub>0</sub>	492.	14.76
Right	Nozzles		
	X <sub>0</sub>	1518.0	45.54
	Y <sub>0</sub>	88.0	2.64
	Z <sub>0</sub>	492.0	14.76
Null Position - Deg.			
Left	Nozzle		
	Pitch	15°49'	15°49'
	Yaw	12°17'	12°17'
Right	Nozzle		
	Pitch	15°49'	15°49'
	Yaw	12°17'	12°17'



TABLE III (Cont'd)

MODEL COMPONENT RUDDER - R<sub>5</sub>

GENERAL DESCRIPTION Configuration 140C orbiter rudder (identical to configuration 140A/R rudder).

MODEL SCALE: 0.030

DRAWING NUMBER VL70-000146R, 000095

DIMENSIONS	FULL SCALE	MODEL SCALE
Area - Ft <sup>2</sup>	<u>100.15</u>	<u>0.090</u>
Span (equivalent), In.	<u>201.00</u>	<u>6.030</u>
Inb'd equivalent chord, In.	<u>91.585</u>	<u>2.748</u>
Outb'd equivalent chord, In.	<u>50.833</u>	<u>1.525</u>
Ratio movable surface chord/ total surface chord	<u>          </u>	<u>          </u>
At Inb'd equiv. chord	<u>0.400</u>	<u>0.400</u>
At Outb'd equiv. chord	<u>0.400</u>	<u>0.400</u>
Sweep Back Angles, degrees	<u>          </u>	<u>          </u>
Leading Edge	<u>34.83</u>	<u>34.83</u>
Trailing Edge	<u>26.25</u>	<u>26.25</u>
Hingeline	<u>34.83</u>	<u>34.83</u>
(Product of area & $\bar{c}$ )		
Area Moment (Woodsen's formula), Ft <sup>3</sup>	<u>610.92</u>	<u>0.0165</u>
Mean Aerodynamic Chord, In.	<u>73.2</u>	<u>2.196</u>

TABLE III (Cont'd)

MODEL COMPONENT: VERTICAL - V<sub>g</sub>GENERAL DESCRIPTION: Configuration 140C orbiter vertical tail.(Identical to configuration 140A/B vertical tail.)MODEL SCALE: 0.030DRAWING NUMBER: VL70-000140C, -000146B

DIMENSIONS:	FULL SCALE	MODEL SCALE
TOTAL DATA		
Area (Theo) - Ft <sup>2</sup>		
Planform	<u>413.253</u>	<u>0.372</u>
Span (Theo) - In.	<u>315.72</u>	<u>9.472</u>
Aspect Ratio	<u>1.675</u>	<u>1.675</u>
Rate of Taper	<u>0.507</u>	<u>0.507</u>
Taper Ratio	<u>0.404</u>	<u>0.404</u>
Sweep-Back Angles, Degrees.		
Leading Edge	<u>45.000</u>	<u>45.000</u>
Trailing Edge	<u>26.25</u>	<u>26.25</u>
0.25 Element Line	<u>41.13</u>	<u>41.13</u>
Chords:		
Root (Theo) WP	<u>268.50</u>	<u>8.055</u>
Tip (Theo) WP	<u>108.47</u>	<u>3.254</u>
M/C	<u>199.81</u>	<u>5.994</u>
Fus. Sta. of .25 M/C	<u>1463.35</u>	<u>43.901</u>
W.P. of .25 MAC	<u>635.52</u>	<u>19.066</u>
B.L. of .25 MAC	<u>0.0</u>	<u>0.0</u>
Airfoil Section		
Leading Wedge Angle - Deg.	<u>10.0</u>	<u>10.0</u>
Trailing Wedge Angle - Deg.	<u>14.92</u>	<u>14.92</u>
Leading Edge Radius	<u>2.0</u>	<u>0.060</u>
Void Area	<u>13.17</u>	<u>0.0019</u>
Blanketed Area	<u>0.0</u>	<u>0.0</u>

TABLE III (Cont'd)

MODEL COMPONENT: WING-W<sub>16</sub>GENERAL DESCRIPTION: Configuration 4NOTE: Identical to W<sub>11</sub>, except airfoil thickness. Dihedral angle is along -  
trailing edge of wing.MODEL SCALE: 0.030

TEST NO.

DWG. NO. VL70-000140A, -000200DIMENSIONS:FULL-SCALEMODEL SCALETOTAL DATAArea (Theo.)  $\text{Ft}^2$ 

Planform

Span (Theo) In.

Aspect Ratio

Rate of Taper

Taper Ratio

Dihedral Angle, degrees

Incidence Angle, degrees

Aerodynamic Twist, degrees

Sweep Back Angles, degrees

Leading Edge

Trailing Edge

0.25 Element Line

## Chords:

Root (Theo) B.P.O.O.

Tip, (Theo) B.P.

MAC

Fus. Sta. of .25 MAC

W.P. of .25 MAC

B.L. of .25 MAC

EXPOSED DATAArea (Theo)  $\text{Ft}^2$ 

Span, (Theo) In. BP108

Aspect Ratio

Taper Ratio

## Chords

Root BP108

Tip  $1.00 \frac{b}{2}$ 

MAC

Fus. Sta. of .25 MAC

W.P. of .25 MAC

B.L. of .25 MAC

Airfoil Section (Rockwell Mod NASA)

XXXX-64

Root  $\frac{b}{2} =$ Tip  $\frac{b}{2} =$ 

Data for (1) of (2) Sides

Leading Edge Cuff

Planform Area  $\text{Ft}^2$ 

Leading Edge Intersects Fus M. L. @ Sta

Leading Edge Intersects Wing @ Sta

TABLE IV.

## FUSELAGE PRESSURE TAP LOCATIONS -

ORBITER - IN.		$\Phi$ RADIAL LOCATION ~ DEGREES																			No.		
FULL	$M_{2004}$	$X_c/L_0$	0	20	40	55	70	90	105	110	120	125	130	140	150	155	162	170	180	190	200		
235	7.05	0	7																	2	3	4	
245	7.35	0.08	8					9												2	3	4	
265	7.95	0.23	11	12	13	14	15	16		17					18					9	4	5	
285	8.65	0.44		24	25	26	27	28		29				30						31	5	6	
325	9.75	0.70		36	37	38	39	40		41				42						43	5	6	
330	1.40	1.2	47	48	49	50	51	52		53				54						55	6	7	
440	3.20	1.53																		59	7	8	
450	3.50	1.66	60	61	62	63	64	65		66				67						68	8	9	
465	3.75	1.77														73	74				2	3	
500	4.00	2.04	75	76	77	78	79	80		81				82	83					84	25	26	
520	4.50	2.51	89	90	91	92	93	94		95				96						95	26	27	
625	6.75	3.01	98	99	100	101	102	103		104				105						104	29	30	
725	7.75	3.78	107	108	109	110	111	112		113				114						113	34	35	
850	8.40	4.77	116	117	118	119	120	121		122				123						122	39	40	
980	9.40	5.74	125	126																	23	3	4
1080	10.40	6.52	128	129	130	131	132	133		134				135						134	39	40	
1180	11.40	7.29	137	138	139	140	141	142												143	7	8	

TABLE IV. - Concluded.

FUSELAGE PRESSURE TAP LOCATIONS

QUARTER-IN.		$\Phi$ RADIAL LOCATION ~ DEGREES																							
Full	$X_1/L_0$	0	20	40	55	70	90	105	110	120	135	140	150	151	156	162	165	169	174	180	305	320	340	360	$\Sigma$
1245	37.35	779	45	146		147	148	149		150	151		152			153				154					10
1300	39.0	821	52	157		158	159	160		161	162		163							164					10
1375	41.25	879	66	167		168	169	170		171	172		173			174									9
1430	42.9	921	76	177		178	179	180		181	182		183			184									9
1480	44.4	960	86	187		188	189	190		191	192		193			194									9
1530	45.9	999							196	197															4
									198	199															50

TABLE V.

[illegible]

TABLE V. - Concluded

N	Y <sub>0</sub>	LEFT WING PRESSURE TAP LOCATIONS																No TAPS	Σ 49 TAPS
		1/2	0	.010	.020	.050	.150	.250	.400	.550	.700	.775	.850	.920	1.00				
641	300	TOP										323	324	325				3	123
		BOT										341	345	346	347			4	
673	315	1/2	0	.010	.020	.050	.150	.250	.400	.550	.700	.775	.850	.920	1.00			7	150
		TOP	324	325	326	327	328	329	330	331	332							5	
		BOT		336	337	338	339	340	341	342	343								
		1/2	0	.010	.020	.050	.150	.250	.400	.550	.700	.775							
730	365	TOP	348	349	350	351	352	353	354	355	356	357						10	159
		BOT		358	359	360	361	362	363	364	365	366						9	
887	415	1/2	0	.010	.020	.050	.150	.250	.400	.550	.700	.775	.850	.920	1.00				
		TOP	367	368	369	370	371	372	373	374	375	376						10	179
		BOT		377	378	379	380	381	382	383	384	385	386					10	
		1/2	0	.020	.069	.157	.315	.503	.620	.862									
972	455	TOP	387	388	389	390	391	392	393	394								8	192
		BOT		395	396	397	398	399	400	401								7	
10	463 3/4	1/2	.713																
		TOP	402	403														2	192
		BOT																	

TABLE VI.

ORBITER VERTICAL TAIL & SPEED BRAKE  
PRESSURE TAP LOCATIONS

VERTICAL (LH only)	$X/C_V$											
	$X/V$	0	.025	.05	.15	.30	.52	.685	.775	.90	1.05	$X/V_{max}$
$Z_0$ SCALE												
550	10.5	430	431	432	433	434	435	436	437		5	5
600	19.0	439	439	440	441	442	443	444	445	446	5	17
645	19.35										5	20
670	20.70	447	448	449	450	451	452	453	454	455	9	23
720	21.6										3	32
765	22.95	456	457	458	459	460	461	462	463	464	9	41
792	23.76	465	466	467	468	469	470	471	472	473	9	50

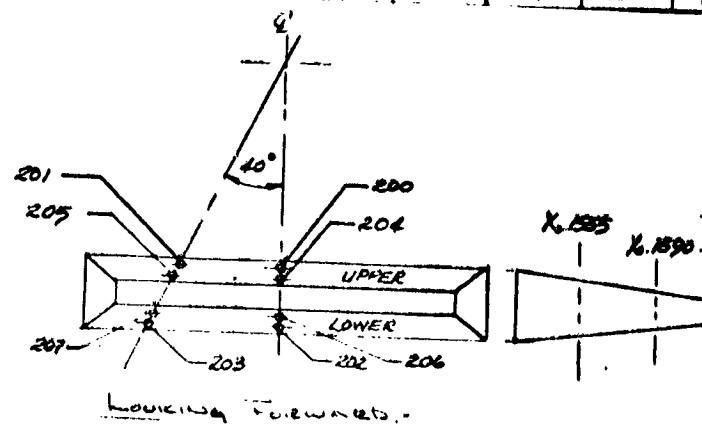
$X/1.5V$											
SPEED BRAKE (INSIDE)											
$Z_0$ SCALE	$Z_0$ SCALE	$X/1.5V$	0	.25	.50	.65	.90	1.05	1.20	1.35	$X/1.5V_{max}$
600	18.0	.110	801	802	803	804	805	5	5		
630	19.9	.254	806	807	808	809	810	5	5		
666	19.8	.407	811	812	813	814	815	5	15		
690	20.7	.567	816	817	818	819	820	5	23		
720	21.6	.706	821	822	823	824	825	5	25		
750	22.5	.856	826	827	828	829	830	5	30		



TABLE VII.

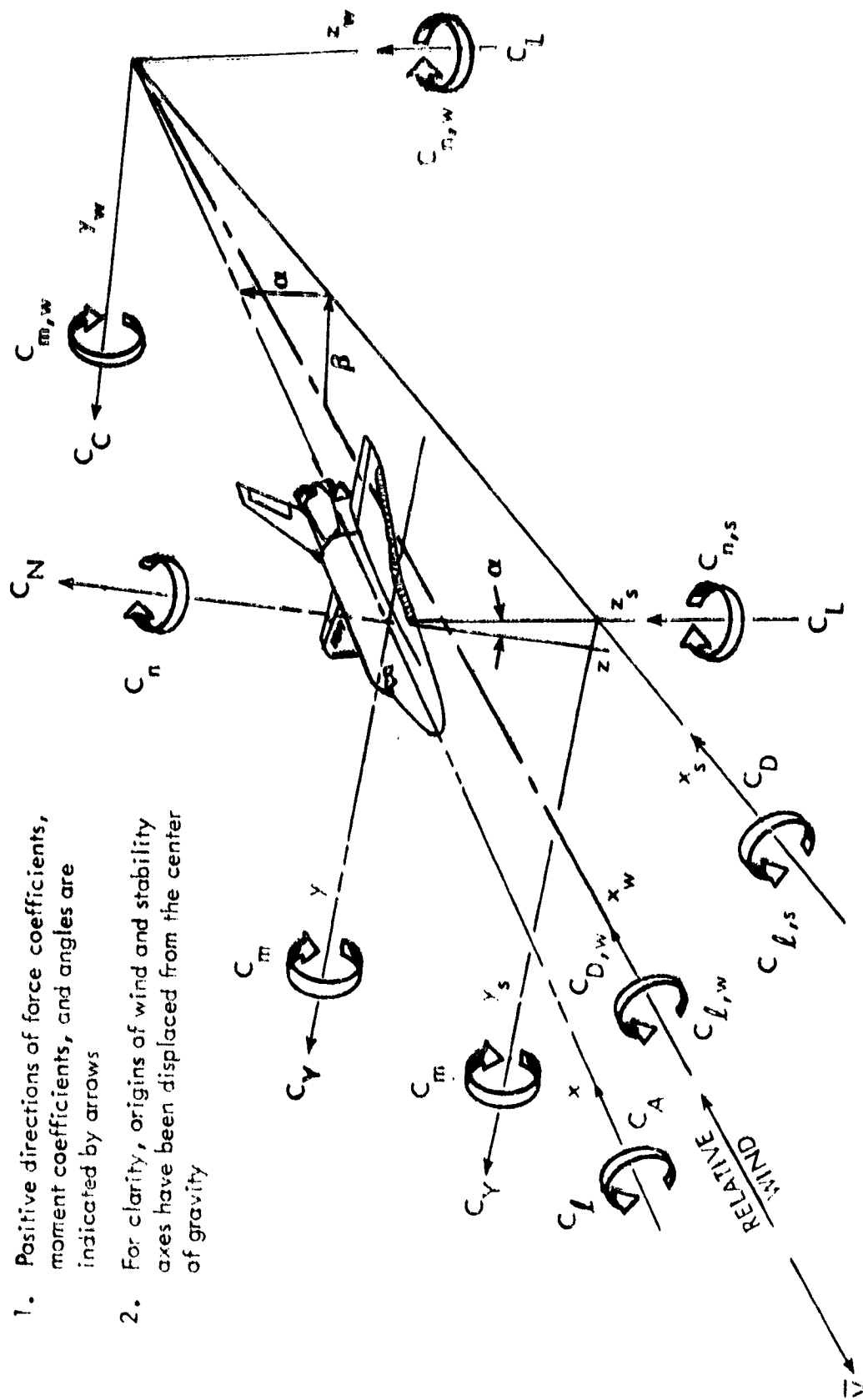
BODYFLAP PRESSURE TAP LOCATIONS

ORBITER-X <sub>0</sub>		X <sub>0</sub> /L	Ø - DEGREES		No. TAPS	Σ No TAPS
FULL SCALE	MODEL SCALE		0	40		
1535 U	46.65	1.018	200	201	2	2
1535 L	46.65	1.018	202	203	2	4
1590 U	47.70	1.026	204	205	2	6
1590 L	47.70	1.046	206	207	2	8



### Notes:

1. Positive directions of force coefficients, moment coefficients, and angles are indicated by arrows
2. For clarity, origins of wind and stability axes have been displaced from the center of gravity

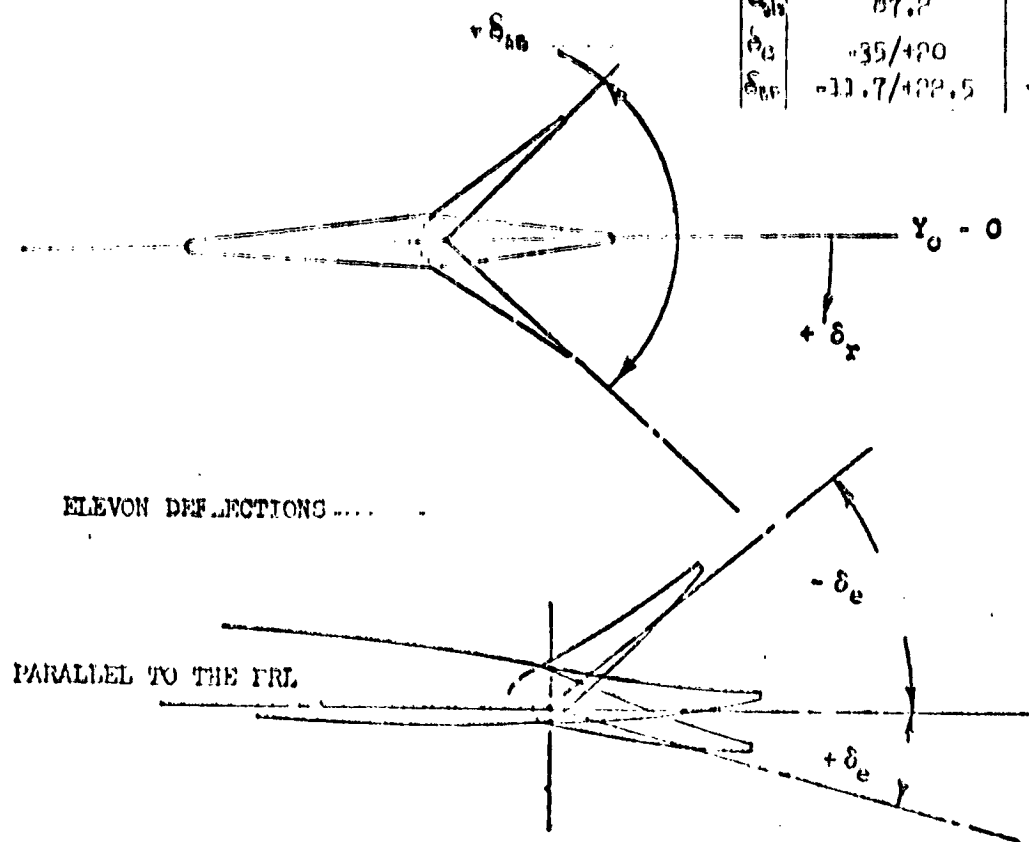


a. Orbiter Axis Systems

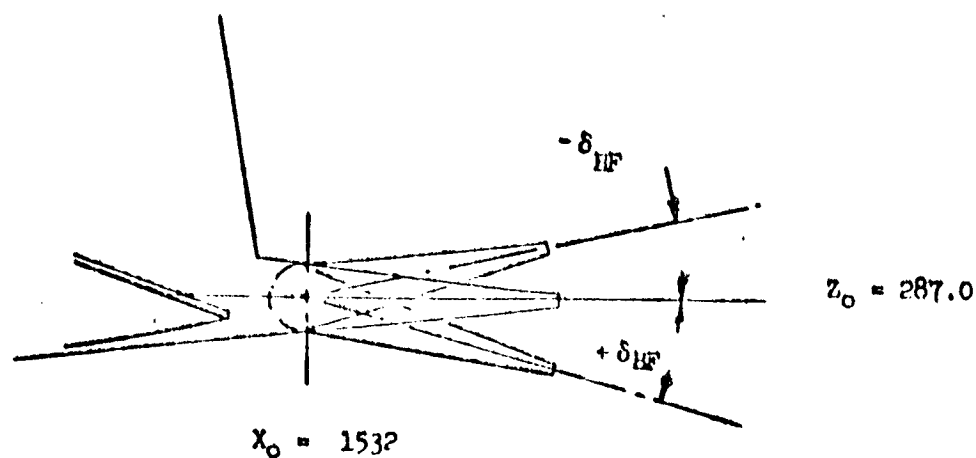
Figure 1. - Axis systems and sign conventions

RUDDER AND SPEED BRAKE DEFLECTIONS  
(PARALLEL TO THE FRL)

	Maximum Deflections	
	Vehicle 142400	Test CA14B
$\delta_F$	22.8	$\pm 10$
$\delta_{H_1}$	87.2	85
$\delta_{H_2}$	-35/+20	$\pm 10$
$\delta_{HF}$	-11.7/+22.5	-11.7/+22.5

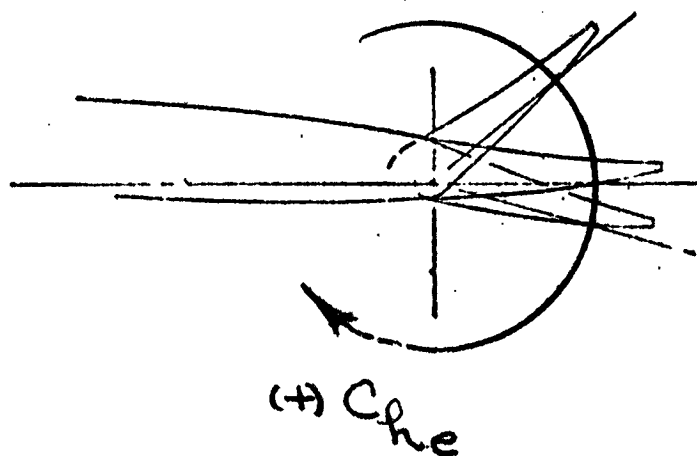


BODY FLAP DEFLECTIONS



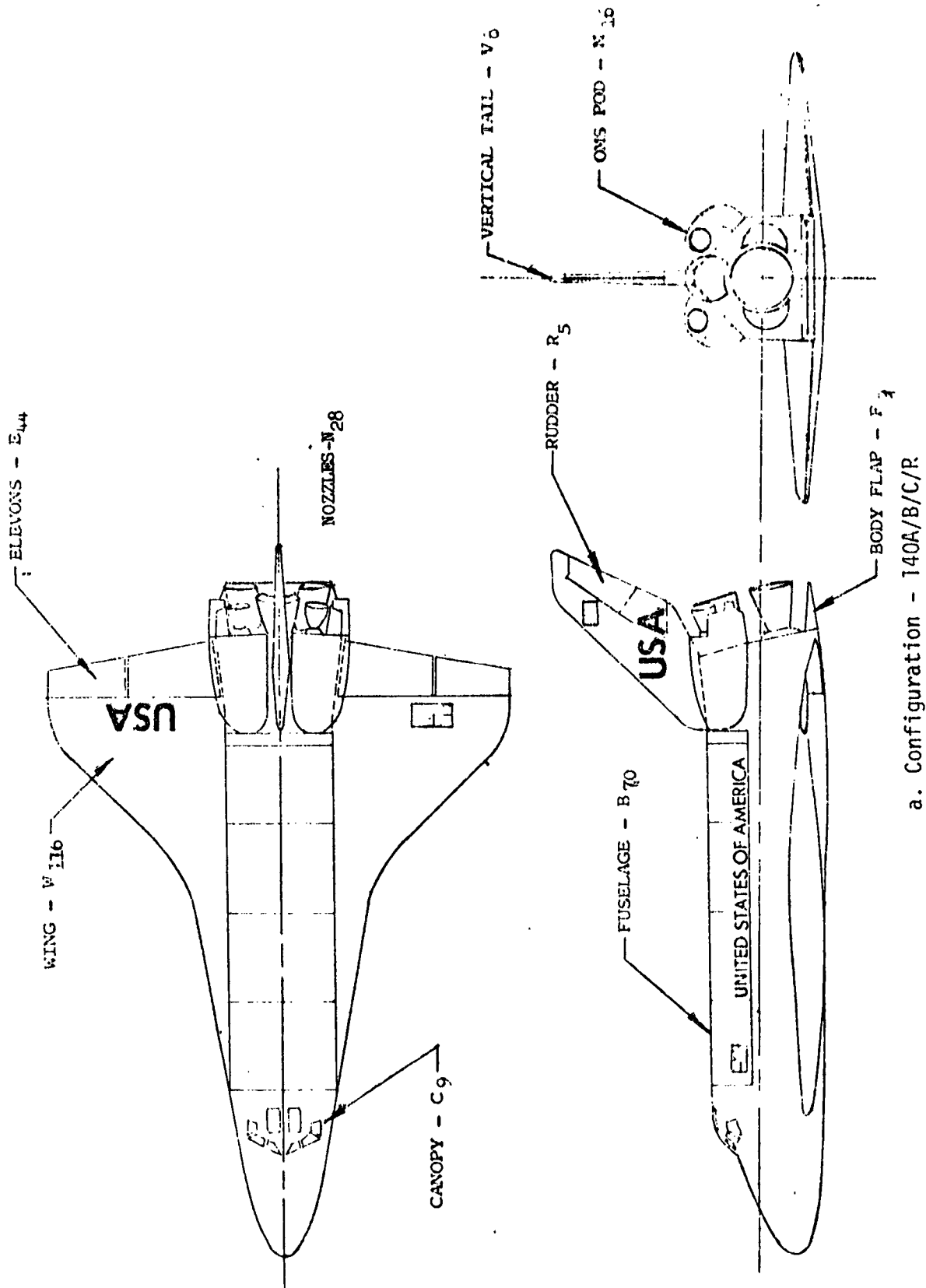
b. Definition of Angular Measurements

Figure 1. - Continued.



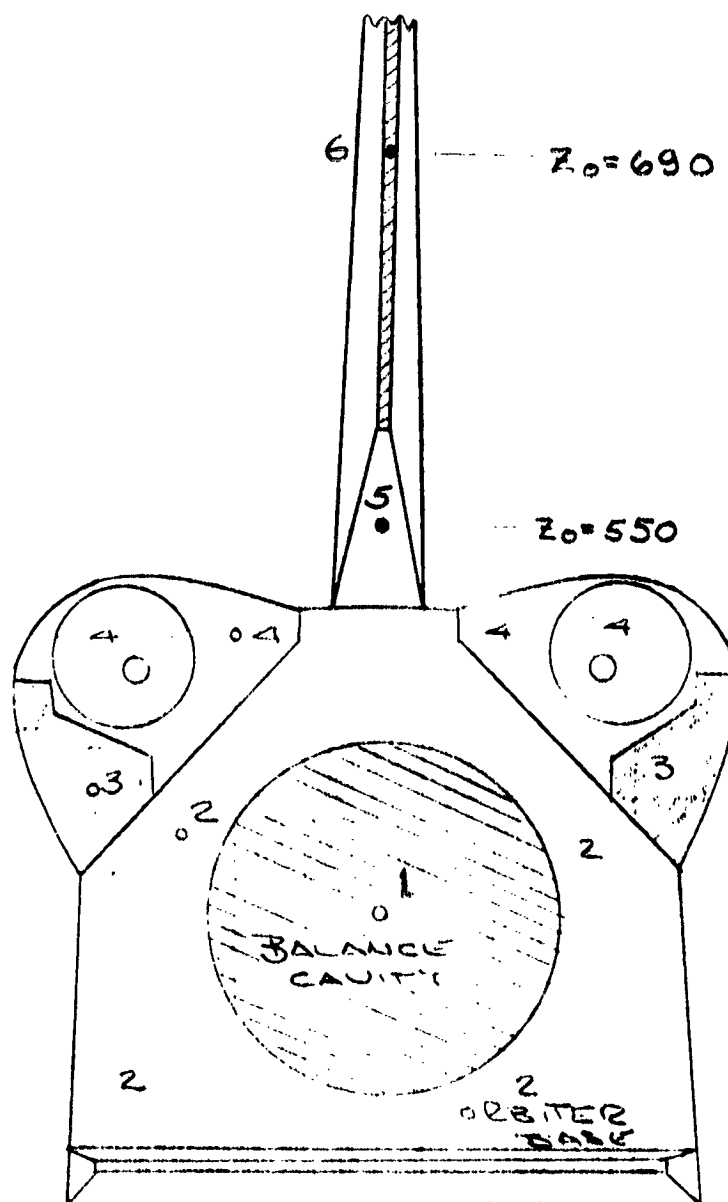
c. Elevon Hinge Moment Sign Convention

Figure 1. - Concluded.



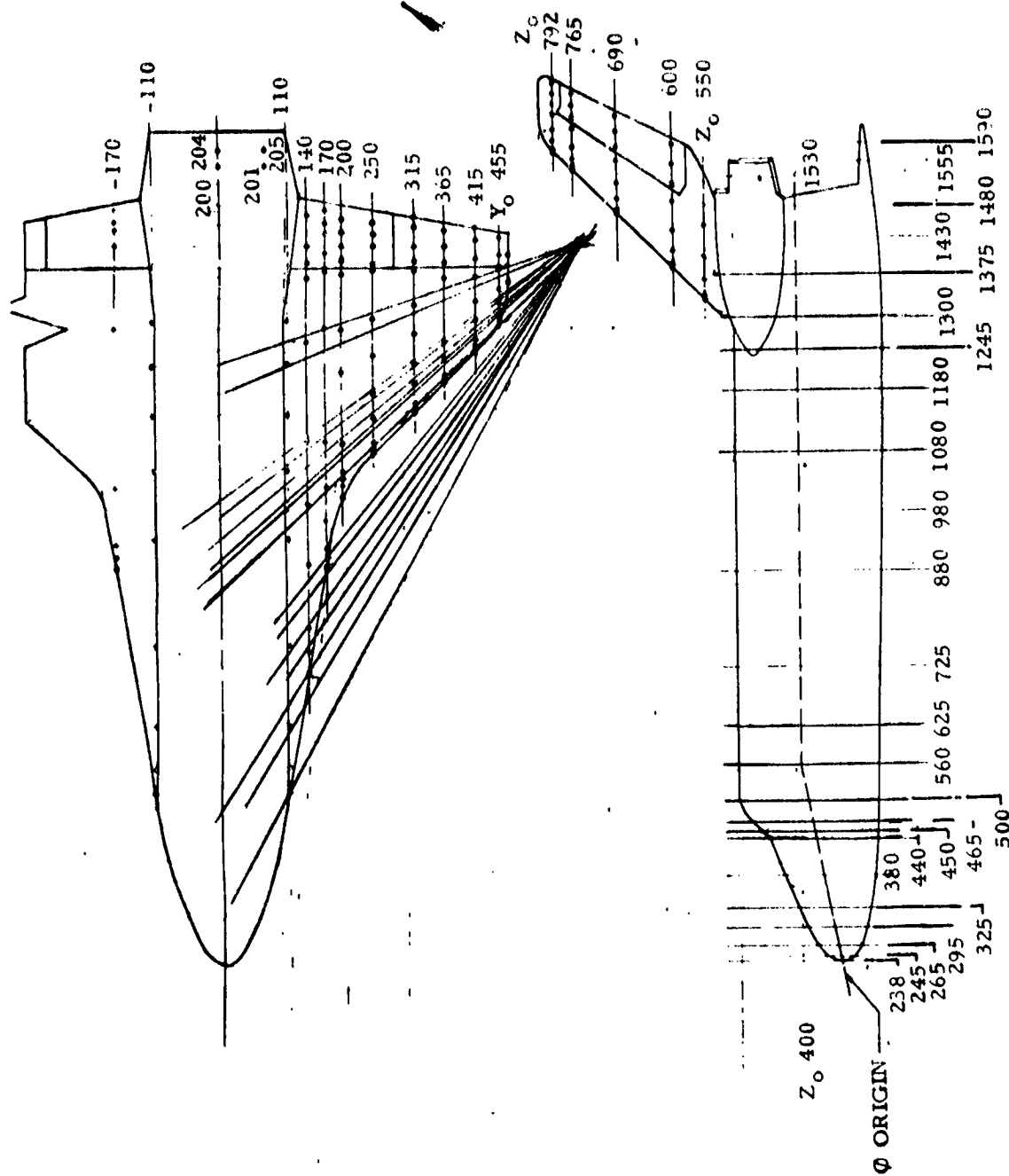
a. Configuration - 140A/B/C/R

Figure 2. - Model sketches.



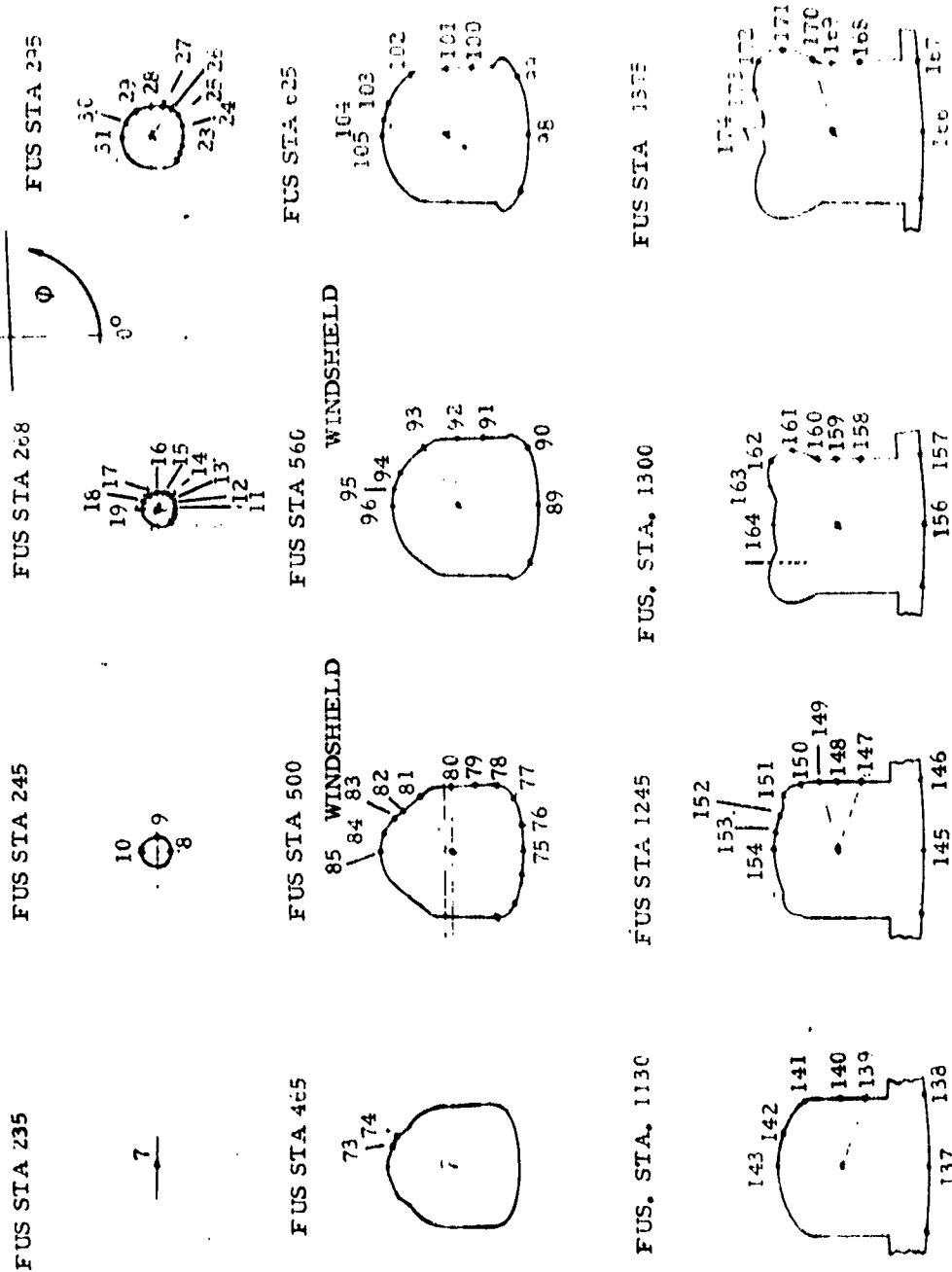
AREA No.	PROJECTED AXIAL VALUE
A1	0.076699 ft <sup>2</sup>
A2	0.215695 ft <sup>2</sup>
A3	0.034072 ft <sup>2</sup>
A4	0.074167 ft <sup>2</sup>

b. Base Pressure Taps and Areas  
Figure 2. - Continued.



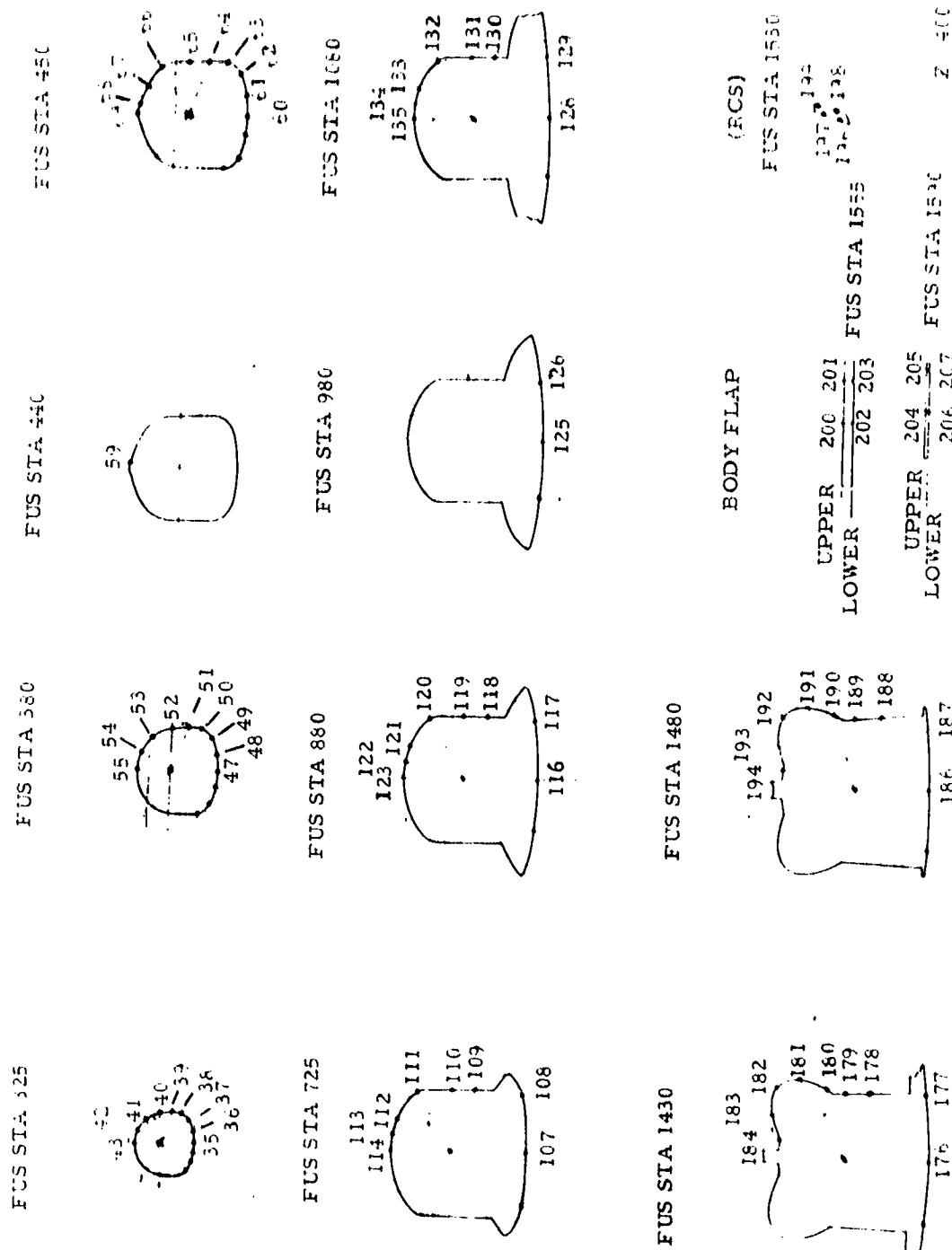
c. Fuselage, Vertical Tail, and Wing Pressure Tap Locations  
Figure 2: - Continued.

NOTE: VIEW LOOKING AFT

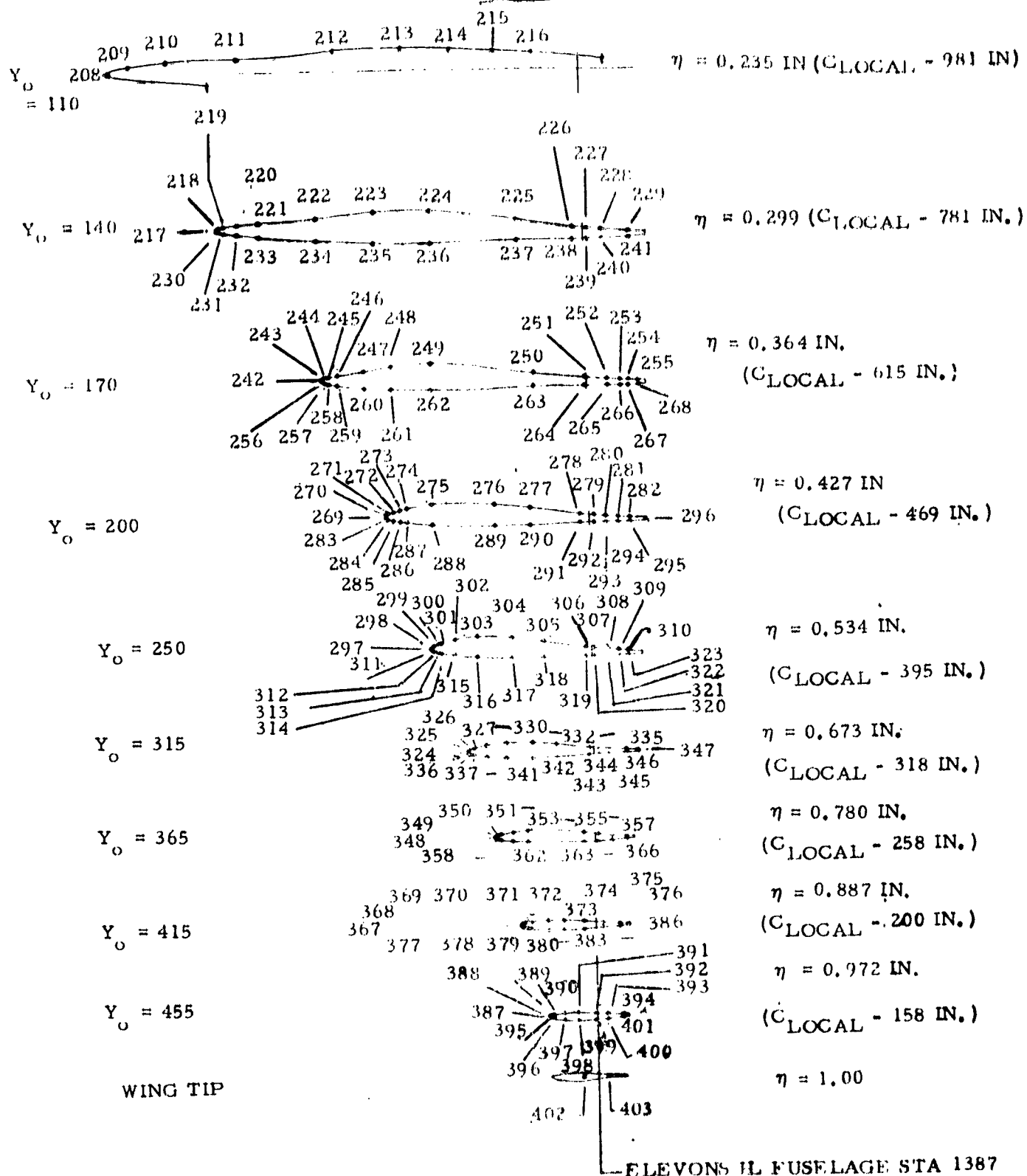


c. Fuselage, Vertical Tail, and Wing Pressure Tap Locations  
Figure 2. - Continued.



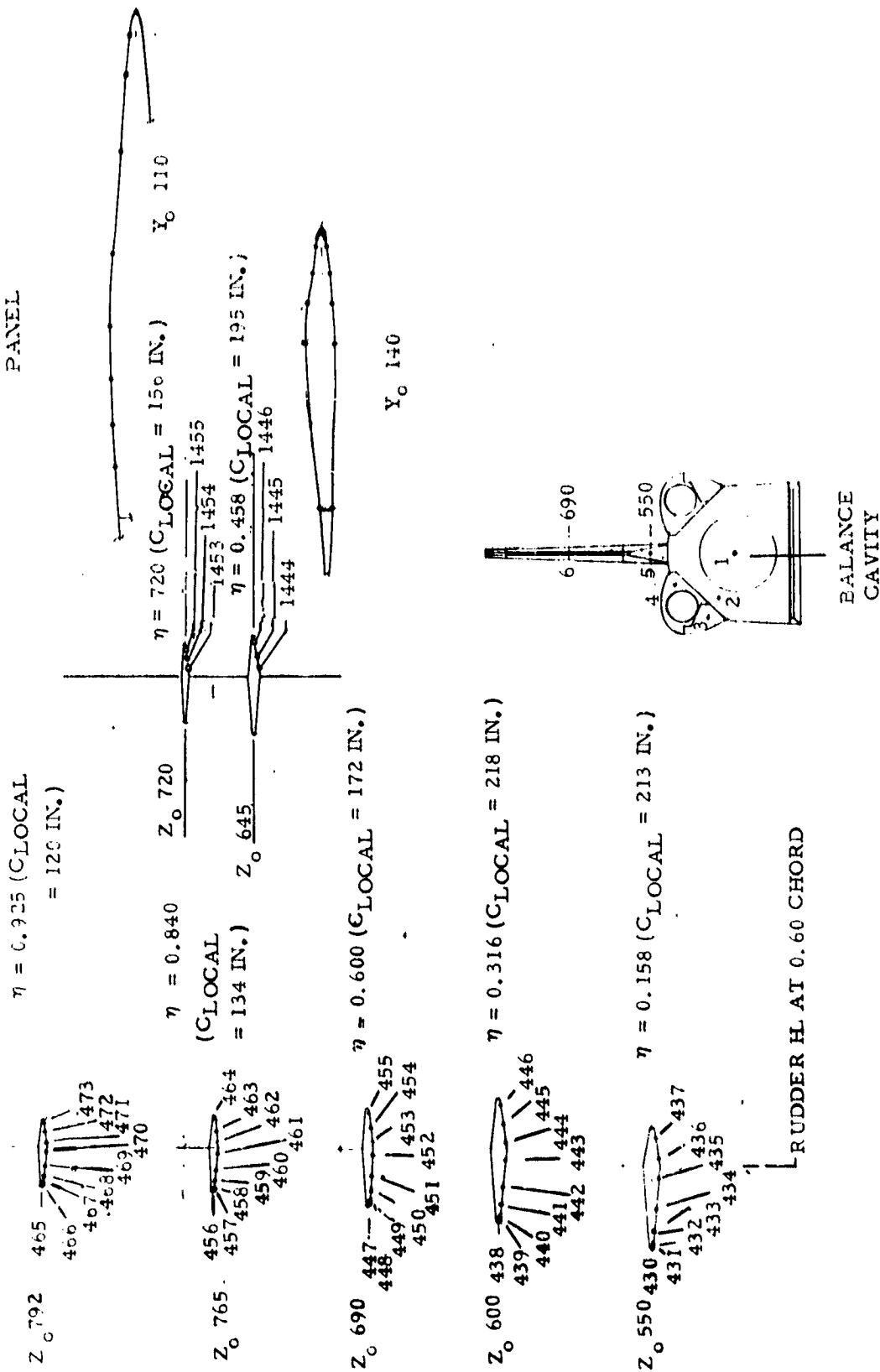


# PRESSURE ORIFICE LOCATION OF LEFT WING PANEL



c. Fuselage, Vertical Tail, and Wing Pressure Tap Locations  
Figure 2. - Continued.

# PRESSURE ORIFICE OF RIGHT WING PANEL



c. Fuselage, Vertical Tail, and Wing Pressure Tap Locations

Figure 2. - Concluded.



a. Three Quarter Front View of model 47-0 in the ARC 11 x 11 UPWT

Figure 3. - Model installation photographs.



b. Three Quarter Rear View of Model 47-0 in the ARC 11 x 11 UPWT

Figure 3. - Concluded.

# APPENDIX \_\_\_\_\_

VOLUME NO.	CONTENTS _____	PAGES
3	TABULATED FORCE DATA TABULATED PRESSURE DATA	1-723
	COMPONENT _____	
4, 5	Orbiter fuselage	1-1270
6, 7, 8 (Note)	Lower wing	1271-3146
9, 10, 11 (Note)	Upper wing	3147- 5404
12	Upper body flap	5405-5773
12	Lower body flap	5774-6142
13	Speed brake	6143-6546
13	Vertical tail	6547-7114

Note: Data tabulated at  $2Y/BW = .673$ ,  $X/CW = .775, .850, .950$  &  $1.00$  were actually located at  $2Y/BW = .641$ ,  $X/CW = .775, .850, .950$  &  $1.00$  as shown in Table V on page 47.

DATE 10 FEB 76

7480ULATED PRESSURE DATA - 04148 (AMES 11-073-1)

PAGE 5014

AMES 11-07310A148) -142A/B/C/R ONE LEFT WING BOT

IXEEL57) 15 AUG 75

## REFERENCE DATA

WING = 210.000 SQ.FT. WMRP = 1076.000 IN. X0  
 WING = 210.000 IN. WMRP = 1076.000 IN. Y0  
 WING = 210.000 IN. WMRP = 375.000 IN. Z0  
 SCALE = 1.000

## PARAMETRIC DATA

BUDGET = 10.000 FUELCK = 55.000  
 BUDGET = 16.500 FUELCK = 4.000  
 R-ELV = 14.000 FUELCK = 1.000

WING (1) = -4.026 BETA (1) = -3.843 MACH = 1.3927 Q = 593.59 P = 441.59 FVL = 2.5055

SECTION 11 LEFT WING BOT SURF

DEPENT VARIABLE CP  
 20724 .2990 .3540 .4270 .5340 .6730 .7800 .8870 .9720

WING

20725	-.1779	-.2447	-.1343	-.2728	-.3551	.2199	-.1860
20726	-.0010	-.2236	-.2462	-.4135	-.3925	-.4096	-.4024
20727	-.1545	-.2300	-.3733	-.4449	-.4265	-.4432	-.4343
20728				-.4421			-.4854
20729		-.1886					
20730	-.1219						
20731	-.1415			-.4011	-.3882	-.3914	-.3948
20732	-.0332	-.1761					-.3122
20733	-.1079						
20734	-.1134						
20735	-.1393	-.1617		-.2121	-.3619	-.3566	-.3668
20736				-.1736	-.3069		-.3283
20737				-.1517			-.3726
20738				-.1360	-.1619		
20739				-.3112		-.3162	
20740	-.0360					-.3159	-.4159
20741				-.1731	-.2068		
20742				-.1829		-.1800	-.2940
20743				-.1320	-.1552		
20744	-.1401	-.1277					
20745	-.1784						
20746				-.2057	-.2106	-.2250	

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TABLETED RESINATE DATA - 04148 (AES 11-273-1)

$\alpha = -1.001$        $\beta = 4.282$   
 AXES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT

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DEPENDENT VARIABLE CP

	.9728	.9870	.7800	.6730	.5340	.4270	.3540	2393
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33/34

[illegible]

{XEB:57}

29062

**TINJ**

441.36

a.

599.59



AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT

$$\text{ALPHA} (2) = .015 \quad \text{BETA} (1) = -$$

SECTION: LEFT WING BOT SURF

DEPENDENT VARIABLE: CP

2Y/BW	.2990	.3540	.4270	.5340	.6730	.7800	.8870	.9720
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33-1110

.010	.0001	.0167	.2100	-.0828	-.1763	-.1059	-.0137
.020	.0030	-.0154	.1509	-.2143	-.2258	-.2374	-.2530
.040		-.0171	.0146				
.050	-.0253			-.2128	-.2322	-.2621	-.2731
.059							
.090				-.1757			-.2409
.061			-.0351				
.096	.0267						
.094	-.0461						
.150				-.1221	-.1776	-.1938	-.2157
.157			.1040				-.1883
.163							
.177			-.0388				
.229	-.0381						
.246		-.0124		-.0559	-.1290	-.1533	-.1819
.250			-.0452				
.274							
.346	-.0341			-.0609	-.0454		-.1423
.330			-.0448				-.1645
.400				-.0327	-.0449		
.503			-.3605				
.502							
.565							
.533							
.537							
.637	-.0209					-.0865	-.1668
.651				-.0980			
.670					-.1158		
.700							
.725							
.760			-.1223			-.0471	-.0483
.775				-.0625	-.0656		
.799	-.0944		-.0552				
.809							
.814	-.1266						
.839	-.0971						
.850			-.1171	-.1356	-.1563	-.1417	
.857							
.882	-.0542						
.909		-.1448					
.930	-.1150			-.2047			-.2188
.935			-.1900				
.949	-.1994						









DATE 1 FEB 78

TABULATED PRESSURE DATA - 0A148 : AMES 11-073-1 : 1

PAGE 2553

AMES 11-073(04148) -142A/B/C/R OPB LEFT WING BOT

(XEB.57)

ALPHA 3.7 -0.005 BETA 1.2 = .197 MACH = 1.3925 C = 599.49 P = 441.53 RN/L = 2.9063

SECTION 1 LEFT WING BOT SURF

DEPENDENT VARIABLE CP

24.54 .2935 .3540 .4270 .5340 .5730 .7800 .8870 .9720

X/C

.010	-.0325	-.1494	.3443	.3054	.2090	.1926	.2090	
.020	.0000	-.0578	.3489	.2270	.1793	.1169	.0600	.0628
.030	.0116	-.0287	.2887	.1097	.0539	.0938	.0557	.0400
.040				.0995				
.050		.1483						
.060	.0066	.0545						
.070				.0783	.0842	.0952	.1099	-.0718
.080	.1809							
.090	.0073	.0979						
.100				.0930	.0880	.0957	.0746	
.110	.0891	.0941						.0129
.120				.0796	.0948		.0661	
.130	.0841	.0761		.0799	.0918			-.0184
.140		-.4174						
.150	.0751					.0332	.0145	
.160								-.0558
.170				-.0106	-.0159			
.180						.0325	.0422	
.190	-.0395	.0410	.0439					
.200								
.210	-.0398	.0520						
.220								
.230	-.0448	-.0104						
.240				-.0378	-.0349	-.0690	-.0692	
.250								-.1923
.260	.0192	-.0782						
.270	-.0512		-.1174					-.1431
.280		-.1283						
.290								
.300	-.1349							



DATE 10 FEB 76

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 2554

(XCEL57)

ALPHA ( 3 ) = 4.005 BETA ( 2 ) = .197  
 AXES 11-073(0A148) -140A/B/C/R ORB LEFT WING BOT

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y164 .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X'CY

.350  
 .953  
 .955  
 .965  
 1.000  
 -.1932  
 -.1747  
 -.1935  
 -.1759  
 -.1526  
 -.1078  
 -.1745  
 -.1121  
 -.3160

ALPHA ( 3 ) = 3.937 BETA ( 3 ) = 4.252 MACH = 1.3926 Q = 599.48 P = 44.59 RNL = 2.9163

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y164 .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X'CY

.1600  
 .3779  
 .2658  
 .3353  
 .2329  
 .2148  
 .2317  
 .2553  
 .2030  
 .1497  
 .1173  
 .0022  
 .1548  
 .1002  
 .1107  
 .1059  
 .0008  
 .1353

-.0111

-.0355

.1425

.1014

-.0223

.0662

.0973

.0670

-.3945

.0814

.1055

.1007

.0965

.1026

.0775

.0324

.1171

.0799

.0226

.0941

-.0302

.0204

.0335

-.0843

-.0105

.0159

.0415

-.0355

-.0022

-.0911

-.0045

-.0302

-.0204

-.0843

-.0105

.0159

.0415

-.0355

-.0022

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-.0045

-.0302

DATE 10 FEB 76

TABULATED PRESSURE DATA - 04148 (AMES 11-073-1)

PAGE 2555

(XCEL57)

ALPHA (1) = 3.907 BETA (1) = 4.252

SECTION 1 (LEFT WING BOT SURF)

DEPENDENT VARIABLE CP

24/RA .2300 .3040 .4270 .5340 .6730 .7900 .8870 .9720

X/CW

.775  
.799  
.829  
.874  
.929  
.991  
.957  
.932  
.899  
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ALPHA (1) = 3.907 BETA (1) = 4.252

SECTION 1 (LEFT WING BOT SURF)

DEPENDENT VARIABLE CP

24/RA .2300 .3040 .4270 .5340 .6730 .7900 .8870 .9720

X/CW

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DATE 10 FEB 78 TABULATED PRESSURE DATA - 0A148 (AMES 11-073-1)

AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING BOT (XCEL57)

ALPHA = 7.3-5 BETA (1) -3.862

SECTION 1 LEFT WING BOT SURF DEPENDENT VARIABLE CP

24/BW .2930 .3540 .4270 .5340 .6730 .7800 .8870 .9720

X CW .0000 .1774 .2500 .2054 .0969

.0000 .1829 .1990 .1268

.0000 .1634 .1267 .0273

.0000 .0623 .1274 .1278

.0000 .0223 .1215 .1208

.0000 .0093 .1289

.0000 .0115 .0501

.0000 .0304 .0163 .0210 .0011

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ALPHA = 7.3-5 BETA (2) = .187 MACH = 1.3931 Q = 599.59 P = 441.36 RN/L = 2.8969

SECTION 1 LEFT WING BOT SURF DEPENDENT VARIABLE CP

24/BW .2930 .3540 .4270 .5340 .6730 .7800 .8870 .9720

X CW .0000 .1774 .2500 .2054 .0969

.0000 .1829 .1990 .1268

.0000 .1634 .1267 .0273

.0000 .0623 .1274 .1278

.0000 .0223 .1215 .1208

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ABSOLUTE PRESSURE DATA - 0A148 ( AMES 11-073-1 )  
 AMES 11-073(0A148) -140A/B/C/R OPS LEFT WING BOT  
 ALPHA = 7.917 BETA ( 2 ) = .187

(XEBLS)

SECTION 11 LEFT WING 90° SURF	DEPENDENT VARIABLE CP	
29904	.2990	.3540 .6730 .7800 .8970 .9720
29905	.2991	
29906	.2992	
29907	.2993	
29908	.2994	
29909	.2995	
29910	.2996	
29911	.2997	
29912	.2998	
29913	.2999	
29914	.3000	
29915	.3001	
29916	.3002	
29917	.3003	
29918	.3004	
29919	.3005	
29920	.3006	
29921	.3007	
29922	.3008	
29923	.3009	
29924	.3010	
29925	.3011	
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TABLED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A149) -140A/E/C/R ORS LEFT WING BOT

$$\text{ALPHA} ( 6 ) = 15.915 \quad \text{BETA} ( 3 ) = 4.292$$

36:5 108 64:4 137:1 40:1036

DEPENDENT VARIABLE CP

24.33	.2930	.3640	.4270	.5340	.6730	.7800	.8870	.9720
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1. *Introduction*

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TABULATED PRESSURE DATA - 04148 (AMES 11-073-1)

PAGE 2557

AMES 11-073(04148) -140A/B/C/R OPS LEFT WING BOT

0356530 1 05 AUG 75

REFERENCE DATA

REF. 107.0000 IN. X0  
REF. 107.0000 IN. Y0  
REF. 107.0000 IN. Z0  
SCALE = 10000

PARAMETER DATA

RUDDER = 10.000  
BOFLAP = 16.000  
R-ELIN = 1.250  
SPDRK = 55.000  
L-ELIN = 4.000  
WACH = 1.250

ALPHA (1) = -0.015 BETA (1) = -3.834 MACH = 1.2474 Q = 600.07 P = 550.87 RVL = 3.0101

SECTION 1 LEFT WING BOT SURF

DEPENDENT VARIABLE CP

2712W .2390 .3540 .4270 .5340 .6730 .7800 .8870 .9720

ALPHA

0.00	-1.452	-1.2327	-1.1970	-1.4019	-1.5052	-1.3540	-1.3220
0.20	-.0030	-1.2671	-1.3028	-1.5512	-1.5448	-1.5618	-1.5573
0.40	-.0030	-1.2624	-1.3454	-1.5735	-1.5716	-1.5949	-1.5865
0.60	-.0030	-1.1479		-1.5356			-1.6553
0.80	-.0030		-1.2372				
1.00	-.0030		-1.1441				
1.20	-.0030			-1.4928	5118	-1.5249	-1.5380
1.40	-.0030		-1.0582				-1.3921
1.60	-.1232		-1.2165				
1.80			-1.1379				
2.00				-1.1942			
2.20					-1.2355	-1.4601	-1.4780
2.40							-1.4968
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10.00							



DATE 10 FEB 78

TABLED PRESSURE DATA - 04148 ( AMES 11-073-1 )

PAGE 2555

AMES 11-073(04148) -1404/B/C/P OPS LEFT WING BOT

0X66593

ALPHA ( 1 ) = 4.012 BETA ( 2 ) = .202

SECTION ( 1 ) LEFT WING BOT SURF

DEPENDENT VARIABLE CP

24 PW 0.000 .3540 .4270 .5340 .6730 .7900 .8870 .9720

-1.2892

-1753

-5848

-1.1854

-2006

-1448

-1427

-1.1391

-1.1554

-1.1629

-1.1415

-1.1735

-1.2032

-1.2311

-1.1999

-2.150

-4.722

-1.1357

-1.2344

-1.1878

-1.2886

-1.2735

-1.3425

-1.2329

-1.1425

-1.2253

-1.1375

-1.2007

BETA ( 3 ) = 4.880

MACH = 1.2474

Q = 600.07

P = 550.87

RWL = 3.0101

SECTION ( 1 ) LEFT WING BOT SURF

DEPENDENT VARIABLE CP

24 PW 0.000 .3540 .4270 .5340 .6730 .7900 .8870 .9720

-1.2892

-1.1854

-1.1629

-1.1415

-1.1735

-1.2032

-1.2311

-1.1999

-2.150

-4.722

-1.1357

-1.2344

-1.1878

-1.2886

-1.2735

-1.3425

-1.2329

-1.1425

-1.2253

-1.1375

-1.2007

BETA ( 3 ) = 4.880

MACH = 1.2474

Q = 600.07

P = 550.87

RWL = 3.0101





DATE 10 FEB 78

EXTRAPOLATED PRESSURE DATA - 0A148 ( AXES 11-073-1 )

PAGE 2571

AXES 11-073(0A148) -140A/B/C/R O/P LEFT WING BOT  
 BETA 11 = -3.958 MACH = 1.2470 Q = 599.89 P = 551.11 RNL = 3.0393

SECTION 1 LEFT WING BOT SURF

DEPENDENT VARIABLE CP

STATION	CP	1.4270	.5340	.6730	.7800	.8870	.9720
1.00	.0000						
1.01	.0000						
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1.30	.0000						
1.31	.0000						
1.32	.0000						
1.33	.0000						
1.34	.0000						
1.35	.0000						
1.36	.0000						
1.37	.0000						
1.38	.0000						
1.39	.0000						
1.40	.0000						
1.41	.0000						
1.42	.0000						
1.43	.0000						
1.44	.0000						
1.45	.0000						
1.46	.0000						
1.47	.0000						
1.48	.0000						
1.49	.0000						
1.50	.0000						
1.51	.0000						
1.52	.0000						
1.53	.0000						
1.54	.0000						
1.55	.0000						
1.56	.0000						
1.57	.0000						
1.58	.0000						
1.59	.0000						
1.60	.0000						
1.61	.0000						
1.62	.0000						
1.63	.0000						
1.64	.0000						
1.65	.0000						
1.66	.0000						
1.67	.0000						
1.68	.0000						
1.69	.0000						
1.70	.0000						
1.71	.0000						
1.72	.0000						
1.73	.0000						
1.74	.0000						
1.75	.0000						
1.76	.0000						
1.77	.0000						
1.78	.0000						
1.79	.0000						
1.80	.0000						
1.81	.0000						
1.82	.0000						
1.83	.0000						
1.84	.0000						
1.85	.0000						
1.86	.0000						
1.87	.0000						
1.88	.0000						
1.89	.0000						
1.90	.0000						
1.91	.0000						
1.92	.0000						
1.93	.0000						
1.94	.0000						
1.95	.0000						
1.96	.0000						
1.97	.0000						
1.98	.0000						
1.99	.0000						
2.00	.0000						



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NEELES

AMES 11-073-0A148, 11-04A/B C/R CRB LEFT KING BOT

ALPHA (2) = 1.40 BETA (3) = 1.89

SECTION / INLET KING BOT SURF DEPENDENT VARIABLE CP

BY BW .2030 .3540 .4870 .5340 .6730 .7800 .8870 .9720

1.0000	-.1140	-.0448	-.0700				
1.0000	-.1149	-.0521					
1.0000	-.1013	-.1323	-.1537	-.1717	-.1630		
1.0000	-.0957					-.2823	
1.0000	-.1274	-.1755	-.2330		-.2651		
1.0000		-.2205					
1.0000		-.2927	-.2978	-.2374	-.3172		
1.0000	-.2371						
1.0000		-.1500	-.1537		-.1684		

ALPHA (2) = 1.37 BETA (3) = 4.251 WAC = 1.2470 0

SECTION / INLET KING BOT SURF DEPENDENT VARIABLE CP

BY BW .2930 .3540 .4270 .5340 .6730 .7800 .8870 .9720

1.0000	-.2517	.2921	-.0457	-.2525	-.2660	-.1951	
1.0000	-.0335	.2801	-.0553	-.1809	-.3381	-.4216	-.1874
1.0000	-.2179	.1159	-.1155	-.2276	-.2748	-.3364	
1.0000			-.0755				-.1924
1.0000	-.0974						
1.0000			-.0590	-.0394	-.0398	-.1177	-.1409
1.0000		.1253					
1.0000	-.0132						
1.0000		.0355					
1.0000			.0031	-.0441	-.0519	-.0913	
1.0000							-.0354

SVL = 3.0093

P = 551.11

593.63





ALPHA ( 3 ) = 3.929 BETA ( 2 ) = .192 MACH = 1.2467 Q = 599.84 P = 551.34 RN/L = 3.0120  
(XEBLS8)

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT

X/CW	.2900	.3040	.4270	.5340	.6730	.7800	.8870	.9720
.010	-.0884	-.2287	.3666	.2851	.1613	.1541	.1824	
.020	.0000	-.1085	.3659	.1734	.1345	.0874	.0428	.0235
.040		1.0716	.2453	.1023	.0356	.0656	.0555	
.050	-.0199			.0926				.0034
.060			.1534					
.080		.0599						
.086	-.0246			.0638	.0940	.0891	.0841	-.0985
.094								
.100		.1999						
.117			.0878					
.229	-.0239							
.245		.0887						
.250			.0973	.0861	.0798	.0787	.0417	
.274								
.345								
.390		.0930						.0001
.400			.0864	.0923	.1106		.0687	
.402								
.503				.0907	.0900			-.0410
.560			-.5203					
.565							-.0139	
.600		.0833				.0083		-.1045
.637				-.0225	-.0480			
.650								
.670						.0119	-.0094	
.720								
.725								
.750			-.0631	.0609	.0318			
.775								
.798		-.0456						
.803			.0454					
.834	-.0713							
.839								
.850		-.0225		-.0684	-.1269	-.1247		-.2612
.857								
.862								
.865	.0109							
.875		-.1187		-.1674			-.2171	
.900	-.0701							
.905			-.1571					
.919		-.1651						

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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(XEBL58)

AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING BOT

ALPHA ( 3 ) = 3.929 BETA ( 2 ) = .192

SECTION ( 1 ) LEFT WING BOT SURF

DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.950 -.2475 -.2311 -.2698

.953 -.2360

.955 -.1883

1.000 -.1463

.1519 -.0784 -.3020

ALPHA ( 3 ) = 3.933 BETA ( 3 ) = 4.251 MACH = 1.2467 Q = 599.84 P = 551.34 RN/L = 3.0120

SECTION ( 1 ) LEFT WING BOT SURF

DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.010 -.2441 -.3617 .2782 .3418 .2070 .2219 .2414

.020 .0000 -.2133 .3154 .2384 .1754 .1667 .1246 -.0397

.040 .0400 -.1650 .2597

.050 -.0936 .1698 .0900 .1097 .1187 -.0288

.063 .063

.080 .1362

.081 .1744

.086 .0140

.094 -.0740

.150 .1036 .1204 .1107 .1078

.157 .1795 .1106

.163 .1203

.177 -.0591

.229 .1025

.246 .1104 .1002 .1048 .0739

.250 .1203

.274 .1108

.345 .1175 .1403 .0908

.390 .1108

.400 .0972 .0973

.402 .0972 .0973

.523 .0972 .0973

.550 .0972 .0973

.565 .0972 .0973

.600 .0972 .0973

.637 .0972 .0973

.650 .0972 .0973

.670 .0972 .0973

.725 .0972 .0973

.750 .0972 .0973

.760 .0972 .0973







AXES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT

(85783X)

ALPHA ( 4 ) =	BETA ( 2 ) =
7.970	.187

SECTION : 1 LEFT WING BOT SURF

DEPENDENT VARIABLE CP

2Y/5M	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
-------	-------	-------	-------	-------	-------	-------	-------	-------

**MJ/X**

[illegible]

DATE 10 FEB 76

TABULATE PRESSURE DATA - 0A148 ( AMES 11-073-1 )

APRS 11-073(OA149) -140A/B/C/R ORB LEFT WING BOT (XE8L58)

ALPHA (4) =	7.934	BETA (3) =	4.250	MACH	= 1.2463	Q	= 599.67	P	= 551.57	RN/I	= 3.0105
-------------	-------	------------	-------	------	----------	---	----------	---	----------	------	----------

SECTION 1137111 ; 14011375

DEPENDENT VARIABLE CP

24/84	.2500	.3649	.4273	.5340	.6730	.7830	.8870	.9720
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**X/CW**

[illegible]

DATE 10 FEB 76

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 2582

(XEBL58)

AMES 11-073(0A148) -140A/B/C/R OR8 LEFT WING BOT

ALPHA ( 4 ) = 7.894 BETA ( 3 ) = 4.250

SECTION ( 1 ) LEFT WING BOT SURF

DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CH

.950  
.953  
.955  
.965  
1.000

-0.1978 -0.1490 -0.1818

-0.1559

-0.1260

-0.1630

-0.1466

-0.4696

-0.4696

-0.4696

-0.4696

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-0.4696

-0.4696

ALPHA ( 5 ) = 11.923 BETA ( 1 ) = -3.838 MACH = 1.2454 Q = 589.32 P = 582.04 RV/L = 3.0114

SECTION ( 1 ) LEFT WING BOT SURF

DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CH

.010

.020

.040

.050

.069

.080

.081

.086

.094

.150

.157

.163

.177

.229

.246

.250

.274

.345

.390

.403

.402

.503

.550

.565

.600

.637

.650

.670

.700

.775

.750

.760

.0732

.1346

.1030

.1874

.1734

.1021

.1388

.3781

.4409

.3781

.3335

.1021

.0599

.1473

.0732















(XEBL99)

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 TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )  
 ALPHA ( 1 ) = -4.013 BETA ( 3 ) = 4.281  
 SECTION ( 1 ) LEFT WING BOT SURF  
 2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720  
 X/CW

DEPENDENT VARIABLE CP							
.177	-.1024						
.229							
.246	.0013						
.250							
.274							
.345							
.390							
.400	-.0325						
.402							
.503							
.550							
.555							
.600							
.637							
.650							
.670							
.700							
.725							
.750							
.760							
.775							
.798							
.808							
.834							
.837							
.850							
.857							
.882							
.885							
.879							
.900							
.915							
.919							
.950							
.953							
.955							
.955							
1.000							

AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING BOT

DATE 10 FEB 76

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 2590

(XEBL59)

AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING BOT

ALPHA ( 2 ) = .051 BETA ( 1 ) = -3.852 MACH = 1.1008 Q = 690.03 P = 707.43 RN/L = 3.1794

SECTION ( 1 ) LEFT WING BOT SURF

DEPENDENT VARIABLE CP

27/84 .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.010	-.0467	-.0078	.2118	-.3327	-.4674	-.3956	-.3091
.020	.0000	-.0392	.1333	-.4794	-.5480	-.5606	-.5938
.040	-.0239	-.0639		-.3067	-.4487	-.5563	-.5943
.050	-.0885						-.4117
.069							
.080							
.081							
.086							
.084	-.1083	.0246					
.150							
.157							
.163							
.177							
.177							
.229							
.246							
.250							
.274							
.345							
.390							
.400							
.402							
.503							
.550							
.565							
.600							
.637							
.650							
.670							
.700							
.725							
.750							
.760							
.775							
.798							
.808							
.834							
.839							
.850							
.857							
.862							
.845							
.879							
.900							
.905							
.919							



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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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(XEBL59)

AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING BOT

ALPHA ( 2 ) = .053 BETA ( 2 ) = .191

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/B4 .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.775								
.798								
.808								
.834								
.839								
.850								
.857								
.862								
.865								
.879								
.900								
.905								
.919								
.950								
.953								
.955								
.965								
1.000								

ALPHA ( 2 ) = .049 BETA ( 3 ) = .255 MACH = 1.100 Q = 600.03 P = 707.43 PN/L = 3.1794

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/B4 .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.010								
.020								
.040								
.050								
.069								
.080								
.091								
.086								
.094								
.150								
.157								
.163								
.177								
.229								
.245								
.250								
.274								
.345								
.390								

-1256

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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ALPHA ( 2 ) = .049 BETA ( 3 ) = 4.255

(XEBLS9)

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/B4 .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/C4

.400 .0223 .0251 -.0447

.402 .0371

.503 -.0258 -.0490 -.1886

.550 -.4908

.565 -.0170

.603 -.1247

.650 -.1921

.673 -.1687

.673 -.1488 -.1597

.700 -.0945 -.1294

.723 -.1964

.750 -.1533

.760 -.0925

.775 -.1879

.793 -.1380

.808 -.1825

.844 -.2168 -.2728 -.2837

.853 -.1151

.857 -.1907

.865 -.2438

.873 -.3015

.903 -.3335

.905 -.3851

.919 -.3177 -.4209

.950 -.3637

.953 -.3043

.957 -.2905

.965 -.1408

1.001 -.1491

ALPHA ( 3 ) = 3.955 BETA ( 1 ) = -3.853 MACH = 1.1009 Q = 600.17 P = 787.44 RN/L = 3.1827

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/B4 .2920 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/C4

.410 -.0327 -.0819 .4633 .1985 .1117 .2010 .2412

.420 -.0000 -.0082 .4295 .0670 .1038 .0949 .0383

.450 -.0000 .0002 .4549 .0470 .0509 .0726 .1033

.500 -.0203

.504 .0413

.503 .0354



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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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(XEBL59)

AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING BOT

ALPHA ( 3 ) = 3.985 BETA ( 1 ) = -3.853

SECTION ( 1 ) LEFT WING BOT SURF	DEPENDENT VARIABLE CP			
27/16W	.2990	.3640	.4270	.5340
X/CW	.1408			
.081				
.086				
.094				
.150				
.157				
.163				
.177				
.229				
.246				
.250				
.274				
.345				
.390				
.400				
.422				
.503				
.551				
.555				
.600				
.637				
.650				
.672				
.700				
.725				
.752				
.750				
.775				
.799				
.814				
.839				
.854				
.855				
.879				
.905				
.919				
.950				
.953				
.955				
1.000				

-.3519

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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ALPHA ( 3 ) = 3.354 BETA ( 2 ) = .193 MACH = 1.1009 Q = 600.17 P = 707.44 RN/L = 3.1827  
 (XEBLS9)

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/54	.2930	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010								
.020	-.1707	-.1937	.4393	.2772	.1851	.2595	.2937	
.030	.0000	-.0860	.4175	.1601	.1474	.1475	.1523	.0068
.040		-.0451	.2899					
.050	-.0833			.1281	.1064	.1262	.1353	.0009
.060				.1203				
.081			.1864					
.096		.0982						
.104	-.0926							
.150				.1382	.1388	.1589	.1083	-.0954
.157		.2588						
.163			.1407					
.177	-.0554							
.229		.1318						
.246				.1545	.1530	.1480	.0733	-.0553
.274		.1497						
.345			.1535					
.330				.1611	.1724		.0766	
.470		.1803						-.1093
.402				.0941	.0657			
.503		-.6689						
.550								
.565								
.600								
.637	.0871							
.650								
.670								
.700								
.725								
.750								
.780								
.775								
.794								
.808								
.834								
.833								
.850								
.857								
.870								
.879								
.890								
.919								

-.3557

-.3323

-.2533

-.2324



(XEBL59)

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )  
 AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING BOT

ALPHA ( 3 ) = 3.956 BETA ( 3 ) = 4.249

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/8X	.2990	.3540	.4270	.5340	.6730	.7800	.8870	.9720
X/C								
.175				.0378	-.0195			
.298	-.0918	-.0087						
.638								
.234	-.1172							
.632	-.0583							
.520				-.1391	-.2095	-.2261		
.657				-.1055				
.642								-.4074
.643	-.0378							
.973				-.2731			-.3348	
.900	-.1214			-.2573				
.905	-.2395							
.919				-.3540	-.2829	-.3630		
.950				-.3236				
.955	-.2705							
.944								
.943	-.2563							
.1000				-.1079	-.0664		-.3596	

ALPHA ( 4 ) = 7.902 BETA ( 1 ) = -3.848 MACH = 1.0993 Q = 599.26 P = 708.35 RN/L = 3.1817

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/8X	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/C								
.010	-.1234	-.3909	.4653	.6044	.5676	.6276	.6095	
.020	.0000	-.1558	.5331	.4878	.5068	.5126	.5009	-.0245
.040		-.0971	.4748					
.050	.0091			.3932	.4015	.4165	.4044	
.069								.0385
.080				.3478				
.081								
.086	.0086	.0358	.3567					
.100								
.105								
.107								
.113		.3572		.3224	.3407	.3509	.2829	-.0710
.117								
.122	.0090		.3091					
.123								
.125		.2556						
.126								
.127				.3567	.3021	.2941	.2258	
.128			.2963					.0176
.129								
.130								
.131								
.132								
.133								
.134								
.135								
.136								
.137								
.138								
.139								
.140								

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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(XEBL59)

ALPHA ( 4 ) = 7.908 BETA ( 1 ) = -3.848

AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING BOT

SECTION 1 LEFT WING BOT SURF

DEPENDENT VARIABLE CP

2Y/84 .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/C4

.400  
.402  
.503  
.550  
.555  
.600  
.637  
.650  
.670  
.700  
.725  
.750  
.775  
.800  
.825  
.850  
.875  
.900  
.925  
.950  
.975  
1.000

.1722 .2899 .2663 .2727 .1834 .1758 .1611 .0179 .0505 .0378

.0085 .0517 .0051 .0051 .0051 .0051 .0051 .0051 .0051 .0051

.0702 .1521 .0592 .0592 .0592 .0592 .0592 .0592 .0592 .0592

.0362 .0727 .0727 .0727 .0727 .0727 .0727 .0727 .0727 .0727

.0646 .0002 .0002 .0002 .0002 .0002 .0002 .0002 .0002 .0002

.0529 .0215 .0215 .0215 .0215 .0215 .0215 .0215 .0215 .0215

.0215 .0215 .0215 .0215 .0215 .0215 .0215 .0215 .0215 .0215

.0215 .0215 .0215 .0215 .0215 .0215 .0215 .0215 .0215 .0215

.0215 .0215 .0215 .0215 .0215 .0215 .0215 .0215 .0215 .0215

.0215 .0215 .0215 .0215 .0215 .0215 .0215 .0215 .0215 .0215

ALPHA ( 4 ) = 7.912 BETA ( 2 ) = .189 MACH = 1.0993 0 = 599.26 P = 708.35 RV/L = 3.1817

SECTION 1 LEFT WING BOT SURF

DEPENDENT VARIABLE CP

2Y/84 .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/C4

.400  
.402  
.503  
.550  
.555  
.600  
.637  
.650  
.670  
.700  
.725  
.750  
.775  
.800  
.825  
.850  
.875  
.900  
.925  
.950  
.975  
1.000

.1722 .2899 .2663 .2727 .1834 .1758 .1611 .0179 .0505 .0378

.0085 .0517 .0051 .0051 .0051 .0051 .0051 .0051 .0051 .0051

.0702 .1521 .0592 .0592 .0592 .0592 .0592 .0592 .0592 .0592

.0362 .0727 .0727 .0727 .0727 .0727 .0727 .0727 .0727 .0727

.0646 .0002 .0002 .0002 .0002 .0002 .0002 .0002 .0002 .0002

.0529 .0215 .0215 .0215 .0215 .0215 .0215 .0215 .0215 .0215

.0215 .0215 .0215 .0215 .0215 .0215 .0215 .0215 .0215 .0215

DATE 10 FEB 76

TABULATED PRESSURE DATA - 0A146 ( AMES 11-073-1 )

PAGE 2599

(XEBLS9)

AMES 11-073(0A146) -140A/B/C/R ORB LEFT WIN. 10.

ALPHA ( 4 ) = 7.912 BETA ( 2 ) = .189

SECTION ( 1 ) LEFT WING BOT SURF		DEPENDENT VARIABLE CP						
27/84	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.081			.3805					
.086		.0137						
.094	-.0527							
.152				.3443	.3461	.3485	.2828	
.157								-.1026
.163		.3528						
.177			.3246					
.209	-.0264							
.246		.2851						
.250			.3075	.3129	.3063	.2902	.2157	
.274								-.0354
.345		.3040						
.390			.2893	.2693	.2653		.1653	
.400								-.0676
.402				.1769	.1543			
.513			-.7002				.0005	
.510		.1791				.0327		
.565								-.0763
.622				.0008				
.637								
.650								
.670								
.700								
.725								
.750								
.763								
.775								
.798								
.808		-.0294	.0779					
.874								
.879	-.0557		.0183					
.899								
.927			-.0247					
.939				-.0757	-.1464	-.1391		
.957								-.3495
.969	.0454							
.983		-.1135						
.997	-.0531		-.2047					
		-.1723						
					</			

DATE 10 FEB 76

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 2600

ALPHA ( 4 ) = 7.911 BETA ( 3 ) = 4.247 MACH = 1.0993 Q = 599.26 P = 708.35 RN/L = 3.1817  
 AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING BOT (XEBLS9)

SECTION ( 1 ) LEFT WING BOT SURF

2Y/BN .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720  
 DEPENDENT VARIABLE CP

X/CW

.010	-.5534	-.4367	.1875	.5790	.5367	.5424	.5076
.020	.0000	-.3482	.3433	.5170	.4981	.4900	-.3397
.040	-.1943	-.2807	.4127	.4360	.4119	.4008	.3825
.060				.3856			-.2017
.080			.3881				
.100		-.0248					
.120	-.1311			.3345	.3382	.3297	.2560
.140							-.1547
.160		.3312	.3426				
.180	-.0721	.2785		.3013	.2908	.2773	.1892
.200			.3094				-.1081
.220		.2937		.2513	.2481		.1367
.240			.2767	.1595	.1262		-.1364
.260		-.6281					
.280							-.0328
.300		.1610				.0051	
.320							-.1467
.340							
.360				-.0136	-.0438		
.380						-.0260	-.0333
.400							
.420							
.440							
.460							
.480							
.500							
.520							
.540							
.560							
.580							
.600							
.620							
.640							
.660							
.680							
.700							
.720							
.740							
.760							
.780							
.800							
.820							
.840							
.860							
.880							
.900							
.920							
.940							
.960							
.980							
.1000							

-.3956

-.2719

-.1937

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 AMES 11-073(0A148) 140A/B/C/R ORB LEFT WING BOT (XEBLS9)

SECTION ( 1 ) LEFT WING BOT SURF	DEPENDENT VARIABLE CP	Q	P	RVL
2Y/BA	.2940 .3540 .4270 .5340 .6730 .7800 .8870 .9720			
X/CW				
.050				
.053				
.055				
.056				
.057				
.058				
.059				
.060				
.061				
.062				
.063				
.064				
.065				
.066				
.067				
.068				
.069				
.070				
.071				
.072				
.073				
.074				
.075				
.076				
.077				
.078				
.079				
.080				
.081				
.082				
.083				
.084				
.085				
.086				
.087				
.088				
.089				
.090				
.091				
.092				
.093				
.094				
.095				
.096				
.097				
.098				
.099				
.100				

SECTION ( 5 ) LEFT WING BOT SURF	DEPENDENT VARIABLE CP	Q	P	RVL
2Y/BA	.2990 .3540 .4270 .5340 .6730 .7800 .8870 .9720			
X/CW				
.010				
.020				
.040				
.050				
.053				
.059				
.060				
.061				
.062				
.063				
.064				
.065				
.066				
.067				
.068				
.069				
.070				
.071				
.072				
.073				
.074				
.075				
.076				
.077				
.078				
.079				
.080				
.081				
.082				
.083				
.084				
.085				
.086				
.087				
.088				
.089				
.090				
.091				
.092				
.093				
.094				
.095				
.096				
.097				
.098				
.099				
.100				





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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 2603

(XEBL59)

ALPHA ( 5 ) = 11.872 BETA ( 2 ) = .197

AMES 11-073(0A148) -14CA/B/C/R ORB LEFT WING BOT

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW .2930 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.400  
.402  
.503  
.500  
.555  
.500  
.537  
.650  
.670  
.700  
.725  
.750  
.750  
.775  
.798  
.808  
.830  
.850  
.857  
.862  
.865  
.879  
.900  
.915  
.919  
.940  
.943  
.945  
.945  
1.000

.3807  
- .7275  
.2491  
.3585  
.2514  
- .0601  
.3581  
.2376  
- .0322  
.0683  
.2772  
- .0471  
- .0502  
- .0077  
- .0368  
- .0945  
- .0142  
- .0733  
- .0461  
- .1489  
- .1495  
- .2450  
- .1755  
- .2463  
- .2153  
- .1802  
- .1596  
- .0880  
- .1745  
- .6079

.1210  
.0758  
.1037  
.1434  
.1665  
.1159  
.0202  
.0160  
- .2153  
- .1802  
- .1596  
- .0880  
- .1745  
- .6079

- .3871

ALPHA ( 5 ) = 11.855 BETA ( 3 ) = 4.258 MACH = 1.0972 Q = 598.33 P = 710.00 RN/L = 3.1878

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW .2930 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.400  
.402  
.503  
.500  
.555  
.500  
.537  
.650  
.670  
.700  
.725  
.750  
.750  
.775  
.798  
.808  
.830  
.850  
.857  
.862  
.865  
.879  
.900  
.915  
.919  
.940  
.943  
.945  
.945  
1.000

.3807  
- .7275  
.2491  
.3585  
.2514  
- .0601  
.3581  
.2376  
- .0322  
.0683  
.2772  
- .0471  
- .0502  
- .0077  
- .0368  
- .0945  
- .0142  
- .0733  
- .0461  
- .1489  
- .1495  
- .2450  
- .1755  
- .2463  
- .2153  
- .1802  
- .1596  
- .0880  
- .1745  
- .6079

- .2727





DATE 10 FEB 76

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 2606

(XEBL60)

AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING BOT

ALPHA ( 1 ) = -4.026 BETA ( 1 ) = -3.841

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

1.2403

-.2079

.857

.862

.865

.879

.900

.905

.919

.950

.963

.965

1.000

-.2424

-.2075

-.1437

-.0420

.1038

.0559

.0726

-.1632

-.1799

-.0326

-.0529

-.0179

.0726

.0559

.0726

.89803

Q

598.77

P

1060.7

RN/L

3.5531

SECTION ( 1 ) LEFT WING BOT SURF

2Y/BW .2920 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

1.2403

-.2079

.857

.862

.865

.879

.900

.905

.919

.950

.963

.965

1.000

-.2424

-.2075

-.1437

-.0420

.1038

.0559

.0726

-.1632

-.1799

-.0326

-.0529

-.0179

.0726

.0559

.0726

.89803

Q

598.77

P

1060.7

RN/L

3.5531

SECTION ( 1 ) LEFT WING BOT SURF

2Y/BW .2920 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

1.2403

-.2079

.857

.862

.865

.879

.900

.905

.919

.950

.963

.965

1.000

-.2424

-.2075

-.1437

-.0420

.1038

.0559

.0726

-.1632

-.1799

-.0326

-.0529

-.0179

.0726

.0559

.0726

.89803

Q

598.77

P

1060.7

RN/L

3.5531

SECTION ( 1 ) LEFT WING BOT SURF

2Y/BW .2920 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

1.2403

-.2079

.857

.862

.865

.879

.900

.905

.919

.950

.963

.965

1.000

-.2424

-.2075

-.1437

-.0420

.1038

.0559

.0726

-.1632

-.1799

-.0326

-.0529

-.0179

.0726

.0559

.0726

.89803

Q

598.77

P

1060.7

RN/L

3.5531

DATE 10 FEB 75

TABULATED PRESSURE DATA - QAI48 ( AMES 11-073-1 )

PAGE 2607

(XE8L60)

ALPHA ( 1 ) = -4.026 BETA ( 2 ) = .202

AMES 11-07310A148) -140A/B/C/R ORB LEFT WING BOT

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

24/84 .2990 .3540 .4270 .5340 .6730 .7800 .8870 .9720

X/CN .637 .650 .670 .690 .700 .705 .710 .715 .719 .724 .729 .734 .739 .744 .749 .754 .759 .764 .769 .774 .779 .784 .789 .794 .799 .804 .809 .814 .819 .824 .829 .834 .839 .844 .849 .854 .859 .864 .869 .874 .879 .884 .889 .894 .899 .904 .909 .914 .919 .924 .929 .934 .939 .944 .949 .954 .959 .964 .969 .974 .979 .984 .989 .994 .999

-.2927

-.2922

-.3648

-.2472

-.2196

-.3024

-.1512

-.1532

-.2501

-.1992

-.2844

-.2224

-.2473

-.2449

-.2293

-.2701

-.1930

-.1676

-.1790

-.1490

-.0292

-.0418

-.0413

-.0350

-.0468

-.0271

.0844

.0757

.0039

-.0271

-.0271

-.0271

-.0271

-.0271

-.0271

-.0271

-.0271

-.0271

-.0271

-.0271

-.0271

-.0271

-.0271

-.0271

ALPHA ( 1 ) = -3.984 BETA ( 3 ) = 4.285 MACH = .89803 Q = 598.77 P = 1060.7 RN/L = 3.5531

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

24/84 .2990 .3540 .4270 .5340 .6730 .7800 .8870 .9720

X/CN .637 .650 .670 .690 .700 .705 .710 .715 .719 .724 .729 .734 .739 .744 .749 .754 .759 .764 .769 .774 .779 .784 .789 .794 .799 .804 .809 .814 .819 .824 .829 .834 .839 .844 .849 .854 .859 .864 .869 .874 .879 .884 .889 .894 .899 .904 .909 .914 .919 .924 .929 .934 .939 .944 .949 .954 .959 .964 .969 .974 .979 .984 .989 .994 .999

-.0063

-.0063

-.0063

-.0063

-.0063

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-.0063

-.0063

DATE 10 FEB 76

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 260B

(XEBL60)

ALPHA ( 1 ) = -3.984 BETA ( 3 ) = 4.285

SECTION ( 1 ) LEFT WING BOT SURF

DEPENDENT VARIABLE CP

2Y/RW .2900 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.177	-.3136							
.229								
.246	-.2037							
.250								
.274	-.2825							
.245								
.390	-.2422							
.400								
.412								
.503	-.2233							
.553								
.555								
.560	-.7493							
.571								
.573								
.574								
.575								
.576								
.577								
.578								
.579								
.580								
.581								
.582								
.583								
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.599								
.600								

.0728

DATE 10 FEB 76

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 2609

ALPHA ( 2 ) = .056 BETA ( 1 ) = -3.856 MACH = .89813 Q = 598.75 P = 1060.5 RN/L = 3.5631  
(XEBL60)

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

27 B	36+C	4270	5340	6730	7800	8870	9720
X/CW							
.010	.0359	.0883	.0981	-.6532	-.8263	-.7558	-.6211
.020	.0000	-.0748	-.0083	-.6144	-.7416	-.7594	-.9141
.030	.0026	-.1686	.0826	-.5266	-.5919	-.6798	-.7464
.040	.0049			-.5266	-.5919	-.6798	-.7464
.050				-.3515			-.3559
.060							
.070							
.080							
.090							
.100							
.110							
.120							
.130							
.140							
.150							
.160							
.170							
.180							
.190							
.200							
.210							
.220							
.230							
.240							
.250							
.260							
.270							
.280							
.290							
.300							
.310							
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.330							
.340							
.350							
.360							
.370							
.380							
.390							
.400							
.410							
.420							
.430							
.440							
.450							
.460							
.470							
.480							
.490							
.500							
.510							
.520							
.530							
.540							
.550							
.560							
.570							
.580							
.590							
.600							
.610							
.620							
.630							
.640							
.650							
.660							
.670							
.680							
.690							
.700							
.710							
.720							
.730							
.740							
.750							
.760							
.770							
.780							
.790							
.800							
.810							
.820							
.830							
.840							
.850							
.860							
.870							
.880							
.890							
.900							
.910							
.920							
.930							
.940							
.950							
.960							
.970							
.980							
.990							
1.000							



DATE 10 FEB 76

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 2610

AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING BOT

(XEBL60)

ALPHA ( 2 ) = .056 BETA ( 1 ) = -3.856

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/6W .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.950 -0.0183 -0.0693 .0113

.953 -0.0417

.955 -0.0180

.956 .1085

1.000 .1085 .0653 .1142

ALPHA ( 2 ) = .056 BETA ( 2 ) = .186 MACH = .99813 0 = 598.75 P = 1060.5 RN/L = 3.5631

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/6W .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.910 .0309 .1062 .1801 -.4666 -.6539 -.7129 -.6186

.920 .0000 .1046 .1003 -.4760 -.5860 -.6387 -.7907 -.3251

.940 .040 .1211 -.5625

.950 .0190 -.3655 -.4720 -.5579 -.6648 -.3249

.960 .059 -.2616

.970 .083 -.1284

.980 .1065

.990 .0750

1.000 .0412

.910 .0213

.920 .0894

.930 .1149

.940 .1404

.950 .1343

.960 .0924

.970 .2144

.980 .0355

.990 .1963

1.000 .3305

.910 .3305

.920 .3946

.930 .3562

.940 .2393

.950 .2187

.960 .2613

.970 .3088

.980 .2192

.990 .3711

1.000 .3534



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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

**PAGE 2612**

(09703X)

AMES 11-073(OA148) -140A/B/C/R ORB LEFT HING BOT

$$\text{ALPHA} (2) = .048 \quad \text{BETA} (3) = 4.260$$

SECTION (1) LEFT WING BOT SURF

2Y/3Y	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
-------	-------	-------	-------	-------	-------	-------	-------	-------

351X

[illegible]

ALPHA ( 3 ) = 3.97E    BETA ( 1 ) = -3.861    MACH = .89723    Q = 597.99    P = 1081.2    RV/L = 3.5607

SECTION 1 LEFT WING BOT SURF

2V/2A	.2930	.3540	.4270	.5340	.6730	.7800	.8870	.9720
-------	-------	-------	-------	-------	-------	-------	-------	-------

20

.087	.156	.395	.1054	.0295	.1223	.1463
.020	.148	.338	-.0275	-.0068	-.0024	-.0115
.030	.197	.1610				
.058			-.0365	-.0533	-.0458	-.0554
.080						
.080			-.0318			-.1616

(XEBL60)

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )  
 AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING BOT

DATE 10 FEB 76

ALPHA ( 3 ) = 3.975 BETA ( 1 ) = -3.861

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/8W .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.081	.0615						
.086	.2250						
.094	.0562		.0012	-.0073	-.0148	-.0782	-.1838
.150							
.157	.1936						
.163		.0192					
.177	.0964						
.183							
.245	.0354		.0060	-.0253	-.0455	-.1017	
.249		.0187					-.2284
.274							
.345	.0264						
.390		.0168	-.0222	-.0291		-.1208	
.400							
.402			-.1217	-.1397			-.2992
.503		.8999					
.550							
.565							
.600							
.637	-.1164				-.2605		-.2422
.650							
.673							
.703							
.725			-.2033		-.2846		
.750							
.760							
.775			-.1759	-.0543	-.0911		
.792							
.809	-.1501	-.1579					
.834							
.849	-.1791						
.850	-.2144						
.857							
.852			-.3497	-.3512	-.4201		-.4240
.865							
.873							
.900	-.2809						
.905			-.2569				-.5845
.919							
.940	-.1694						
.943			-.0489	-.1117	-.2946		
.955	-.0494						
.965	-.0373						
.965		.1177		.0799		-.0749	

DATE 10 FEB 75

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 2614

A/S 11-073(0A148) -140A/B/C/R ORS LEF. WING BOT (XEBL60)

ALPHA ( 3 ) = 4.019 BETA ( 2 ) = .193 MACH = .89723 Q = 597.99 P = 1061.2 RN/L = 3.5607

SECTION ( 1 ) LEFT WING BOT SURF

DEPENDENT VARIABLE CP

2Y/B4 .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.010	-.0858	-.0024	.3654	.1839	.0869	.1554	.1495
.020	.0000	.0890	.3425	.0502	.0542	.0354	.0091
.040	.0217	.1319	.2073	.0255	-.0223	-.0222	-.0427
.050	.0069			.0054			-.2382
.060	.081		.0994				
.070	.0413	.2129					
.080				.0149	-.0002	-.0150	-.0869
.090							-.2223
.100	.2102		.0440				
.110	.0541			.0100	-.0263	-.0552	-.1234
.120			.0288				
.130	.0336			-.0251	-.0413		-.1453
.140			.0117	-.1285	-.1579		-.3457
.150			-.9155				
.160	-.1234					-.3131	
.170					-.2932		-.2665
.180				-.2252	-.3330		
.190			-.1988		-.2382	-.1770	
.200				-.0702	-.1053		
.210	-.1613		-.1580				
.220	-.1932			-.3537	-.3584	-.4179	
.230			-.3091				-.4242
.240							
.250	-.1465						
.260	-.2716		-.3371				-.5844
.270			-.2659				
.280	-.2025						

DATE 10 FEB 76 TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )  
 AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING BOT

(XCEL60)

ALPHA ( 3 ) = 4.019 BETA ( 2 ) = .193

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW .2930 .3540 .4270 .5340 .6730 .7800 .8870 .9720

X/CW  
 .950  
 .953  
 .955  
 .955  
 1.000

-0.0569 -0.0877 -0.2283

-0.0608  
 -0.0702  
 .0947

.0904 -0.0655

ALPHA ( 3 ) = 3.944 BETA ( 3 ) = 4.252 MACH = .89723 Q = 597.99 P = 1061.2 RW/L = 3.5607

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW .2990 .3540 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.010  
 .020  
 .040  
 .050  
 .060  
 .080  
 .090  
 .100  
 .120  
 .140  
 .160  
 .180  
 .200  
 .220  
 .240  
 .260  
 .280  
 .300  
 .320  
 .340  
 .360  
 .380  
 .400  
 .420  
 .440  
 .460  
 .480  
 .500  
 .520  
 .540  
 .560  
 .580  
 .600  
 .620  
 .640  
 .660  
 .680  
 .700  
 .720  
 .740  
 .760

-0.2035  
 -0.0000  
 -0.0339  
 .069  
 .090  
 .081  
 .066  
 .029  
 .020  
 .027  
 .0701

.1728

.2149

.0588

.0306

.0099

-.0053

-.0870

-.2646

-.3322

-.1581

-.3394

-.3026

-.2991

-.2949

-.2339

-.2448

-.2018

-.2122





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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 2617

(XEBL60)

ALPHA ( 4 ) = 8.020 BETA ( 1 ) = -3.857

AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING BOT

SECTION ( 1 ) LEFT WING BOT SURF

DEPENDENT VARIABLE CP

2Y/BW .2990 .3540 .4270 .5340 .6730 .7800 .8870 .9720

X/CM

.400  
.402  
.503  
.550  
.555  
.600  
.637  
.650  
.670  
.700  
.725  
.750  
.760  
.775  
.793  
.825  
.833  
.850  
.857  
.862  
.865  
.879  
.900  
.905  
.919  
.940  
.944  
.945  
.945  
1.000

-.0317

-.2064

-.1680

-.2489

-.2330

-.1610

-.2154

-.1467

-.1607

-.0160

-.1114

-.1278

-.1606

-.1934

-.2841

-.3393

-.3857

-.3978

-.4812

-.5043

-.5523

-.2621

-.4405

-.5952

-.1036

-.0994

-.0697

-.0888

-.0715

-.3554

-.0888

-.0715

-.3554

-.0888

-.0715

-.3554

-.0888

-.0715

-.3554

-.0888

-.0715

-.3554

-.0888

-.0715

-.3554

-.0888

ALPHA ( 4 ) = 8.020 BETA ( 2 ) = .194 MACH = .89903 Q = 599.30 P = 1059.3 RAYI = 3.5654

SECTION ( 1 ) LEFT WING BOT SURF

DEPENDENT VARIABLE CP

2Y/BW .2990 .3540 .4270 .5340 .6730 .7800 .8870 .9720

X/CM

.010  
.020  
.040  
.050  
.060  
.069  
.080

-.3729

-.3915

-.4334

-.4659

-.4164

-.3781

-.3773

-.3695

-.3296

-.4227

-.2274

-.2620

-.2274

-.2926





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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 2619

ALPHA ( 4 ) = 8.024 BETA ( 3 ) = 4.248 MACH = .89903 Q = 599.30 P = 1059.3 RN/L = 3.5654  
 (XEBL60)

AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING BOT

SECTION ( 1 ) LEFT WING BOT SURF

DEPENDENT VARIABLE CP

2Y/BN .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CM

.010	-.5275	-.3416	.0896	.4459	.3988	.4012	.3482
.020	.0000	-.1683	.2600	.3827	.3542	.3468	.3011
.040	-.0914	.3171	.2923	.2665	.2509	.2215	-.5242
.050	-.1293						
.069							-.4001
.080			.2348				
.081							
.086		.1444	.2560				
.094	-.0327			.1780	.1781	.1581	.0661
.150		.2756					-.2556
.157			.1899				
.163							
.177							
.229	.0863	.1654		.1313	.1148	.0885	-.0026
.246			.1465				-.2291
.250							
.274		.1491	.0960	.0657	.0542	-.0713	
.345							-.2863
.400							
.402							
.503							
.550							
.565							
.600							
.647							
.650							
.670							
.700							
.723							
.750							
.760							
.775							
.798							
.809							
.834							
.839							
.850							
.857							
.862							
.865							
.879							
.903							
.905							
.919							

-.5908

-.5521

-.5085

-.4461

-.3410

DATE 10 FEB 76

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 2620

(XEBL60)

ALPHA ( 4 ) = 8.024 BETA ( 3 ) = 4.248

AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING BOT

SECTION ( 1 ) LEFT WING BOT SURF

DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW	.950							
	.953							
	.955							
	.965							
	1.000							

-0.1996 -0.3623 -0.5927

-0.1248

-0.1403

-0.1108

1.000

.0515

-0.0070

-0.4797

ALPHA ( 5 ) = 11.919 BETA ( 1 ) = -3.839 MACH = .89963 Q = 599.94 P = 1059.0 RN/L = 3.5645

SECTION ( 1 ) LEFT WING BOT SURF

DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW	.010							
	.020							
	.040							
	.050							
	.069							
	.080							
	.091							
	.086							
	.094							
	.150							
	.157							
	.163							
	.177							
	.229							
	.246							
	.250							
	.274							
	.345							
	.390							
	.400							
	.402							
	.503							
	.550							
	.565							
	.600							
	.637							
	.640							
	.670							
	.700							
	.725							
	.750							
	.760							

X/CW

-0.4774

.0000

-0.0178

.069

.080

.091

.086

.094

.150

.157

.163

.177

.229

.246

.250

.274

.345

.390

.400

.402

.503

.550

.565

.600

.637

.640

.670

.700

.725

.750

.760

.2028

.4120

.4817

.4060

.2757

.4129

.3177

.2949

.2674

.2513

.2114

.0620

.0387

.0491

.2655

.1871

.1824

.3315

.3380

.3321

.2412

.1600

.0764

.0387

.0387

.0387

.0387

.0387

.0387

.0387

.0387

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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ALPHA ( 5 ) = 11.919 BETA ( 1 ) = -3.839

(XEBL60)

AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING BOT

SECTION ( 1 ) LEFT WING BOT SURF

DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CH	.775	.798	.808	.834	.839	.850	.857	.862
	.865	.879	.907	.905	.919	.950	.953	.955
	.965	1.000						

	.0381	-.0946
--	-------	--------

	-.0937	-.0799
--	--------	--------

	-.1403	-.1635
--	--------	--------

	-.2850	-.3643	-.3628
--	--------	--------	--------

	-.0945	-.3841
--	--------	--------

	-.2943	-.4752
--	--------	--------

	-.4566	-.5039
--	--------	--------

	-.4102	-.4697
--	--------	--------

	-.5621	-.4546	-.5826
--	--------	--------	--------

	-.2609	-.0291
--	--------	--------

	-.3248	-.5396
--	--------	--------

ALPHA ( 5 ) = 11.929 BETA ( 2 ) =

.180 MACH = .89963

Q

= 599.94

P

= 1059.0

RN/L

= 3.5645

SECTION ( 1 ) LEFT WING BOT SURF

DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CH	.010	.020	.040	.050	.069	.080	.081	.086
	.094	.150	.157	.163	.177	.229	.246	.250
	.274	.341	.390					

	-.6844	-.4195	-.0053	.9436	.5208	.4742	.4150
--	--------	--------	--------	-------	-------	-------	-------

	.0000	-.2139	.2569	.5253	.5108	.4918	.4299
--	-------	--------	-------	-------	-------	-------	-------

	-.5512
--	--------

	-.1221	.4479	.4386	.4126	.3659
--	--------	-------	-------	-------	-------

	-.3712
--	--------

	.3863
--	-------

	.3797
--	-------

	.1879
--	-------

	.3135	.3161	.3050	.2055
--	-------	-------	-------	-------

	-.2553
--	--------

	.3684	.3102
--	-------	-------

	.1632	.2725
--	-------	-------

	.2519	.2389	.2161	.1225
--	-------	-------	-------	-------

	-.1873
--	--------

	.2421
--	-------

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 2822

(XEBL60)

AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING BOT

ALPHA ( 5 ) = 11.929 BETA ( 2 ) = .180

SECTION ( 1 ) LEFT WING BOT SURF

DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.400 .402 .503 .550 .565 .600 .637 .652 .670 .700 .725 .750 .760 .775 .798 .828 .834 .839 .850 .857 .862 .865 .879 .900 .905 .919 .920 .933 .945 .945 1.000

.2007 .1653 .1587 .0327

-.6052 .0433 .0199 -.2394

.0458 -.1420

-.1022

-.3096

-.1203

-.1561

-.1947

-.1465

.0229

-.1097

-.0976

-.0909

-.1372

-.1557

-.3012

-.3745

-.3677

-.2514

-.3632

-.4611

-.5161

-.4601

-.5654

-.4601

-.5866

-.4781

-.2575

-.1852

-.0530

-.2737

-.5587

-.0530

-.2737

-.5587

-.0530

-.2737

-.5587

-.0530

-.2737

-.5587

-.0530

-.2737

-.5587

-.0530

-.2737

-.5587

ALPHA ( 5 ) = 11.915 BETA ( 3 ) = 4.268 MACH = .89963 Q = 599.94 P = 1059.0 RN/L = 3.5645

SECTION ( 1 ) LEFT WING BOT SURF

DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.010 .020 .040 .050 .069 .080

-.7927

-.3888

-.2190

.4307

.4223

.3500

.2896

.0833

.4570

.4456

.4199

.3495

.7094

.3150

.4079

.4007

.3688

.3194

.4965



AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING BOT (XEBL61) ( 05 AUG 75 )

## REFERENCE DATA

SREF	=	26'30.0000	50. FT.	XMRP	=	1076.6800	IN.	X0
LREF	=	474.8000	IN.	YMRP	=	.0000	IN.	Y0
BREF	=	936.0480	IN.	ZMRP	=	375.0000	IN.	Z0
SCALE	=	.0300						

## PARAMETRIC DATA

RUDDER =	10.000	SPDRBK =	55.000
BOFLAP =	16.300	L-ELVN =	4.000
R-ELVN =	-4.000	MACH =	.600

ALPHA ( 1 ) =	-4.014	BETA ( 1 ) =	-7.854	MACH	= .59638	Q	= 594.21	P	= 2386.5	RN/L	= 4.8411
---------------	--------	--------------	--------	------	----------	---	----------	---	----------	------	----------

## SECTION : LEFT WING BOT SURF

2Y/8W	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
-------	-------	-------	-------	-------	-------	-------	-------	-------

[illegible][illegible]

DATE 10 FEB 76

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 2625

(XEBL61)

AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING BOT

ALPHA ( 1 ) = -4.014 BETA ( 1 ) = -7.854

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BA .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CH

.857 -.1881

.862

.865 -.1714

.879 -.1944

.900 -.1678

.905 -.1584

.919 -.1468

.950 -.0662

.953 -.0812

.955 -.0454

1.000

ALPHA ( 1 ) = -3.998 BETA ( 2 ) = -3.832 MACH = .59638 Q = 594.21 P = 2386.5 RN/L = 4.8411

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BA .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CH

.010

.020

.040

.050

.069

.080

.081

.086

.094

.150

.157

.163

.177

.229

.245

.250

.274

.345

.330

.400

.402

.523

.550

.565

.600

-.1901 -.4369 -.8257 -2.0305 -2.1156 -1.8819 -1.8232

.0000 -.3830 -.8799 -1.7412 -1.9123 -1.5024 -1.7827

-.1714 -.3485 -.7657 -.8742 -.9142 -1.0699 -1.0603

.069 -.6492

.080 -.5320

.081 -.2320

.086 -.2880

.094 -.3183

.150 -.3409

.157 -.1227

.163 -.2723

.177 -.3139

.229 -.3429

.245 -.3313

.250 -.2847

.274 -.2259

.345 -.2667

.330 -.2155

.400

.402

.523

.550

.565

.600



DATE 10 FEB 76

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 2826

(XEBL61)

AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING BOT

ALPHA ( 1 ) = -3.998 BETA ( 2 ) = -3.832

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.637	-.1937						
.650							
.670							
.700							
.725							
.750							
.760							
.775							
.799							
.808							
.834							
.839							
.860							
.867							
.882							
.899							
.908							
.927							
.933							
.953							
.955							
.965							
1.000							

ALPHA ( 1 ) = -3.980 BETA ( 3 ) = .201 MACH = .59638 Q = 594.21 P = 2388.5 RV/L = 4.8411

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW .2090 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.010							
.020							
.040							
.050							
.069							
.080							
.091							
.095							
.134							
.150							
.157							
.163							



DATE 10 FEB 76

## TABULATED PRESSURE DATA - 04148 ( AMES 11-073-1 )

PAGE 2628

ALPHA ( 1 ) = -3.998 BETA ( 4 ) = 4.282 MACH = .59638 Q = 594.21 P = 2386.5 RNL = 4.8411

(XEBLS1)

## SECTION ( 1 ) LEFT WING BOT SURF

2Y/BA	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CH								

## DEPENDENT VARIABLE CP

.010	-.0435	-.0987	-.3597	-1.4252	-1.5746	-1.9463	-1.7765	
.020	.0000	-.0862	-.4073	-1.1167	-1.2548	-1.3347	-1.6097	-.5735
.040		-.0685	-.4270					
.050	-.0541			-.6423	-.7232	-.8013	-.8154	-.4250
.069								
.080				-.4870				
.091		-.0495						
.086	-.0553							
.094				-.3189	-.3550	-.3707	-.3828	-.2417
.150								
.157		-.1237						
.163			-.2545					
.177	-.0423							
.204		-.2184						
.206				-.2271	-.2620	-.2817	-.2755	-.2050
.210								
.234		-.1702						
.245			-.1533					
.390				-.1730	-.1794		-.1886	
.400								
.402				-.1798	-.1851			-.1984
.503			-.1683					
.550								
.555								
.600								
.637		-.1735					-.1891	
.650								
.670								
.700								
.725				-.1620				-.1848
.750								
.760			-.1593			-.2012	-.1768	
.775				-.1456	-.1263			
.799		-.1342						
.808			-.1550					
.824	-.1548							
.839		-.1783						
.850								
.857			-.1761					
.852				-.1877	-.1613	-.1948		
.855	-.1515							-.1201
.873		-.1764						
.900	-.1624			-.1606				-.1187
.905			-.1533					
.913		-.1434						

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 AMES 11-073(0A148) -14CA/B/C/R ORB LEFT WING BOT

(XEBL61)

ALPHA ( 1 ) = -3.998 BETA ( 4 ) = 4.282

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP  
 2Y/B4 .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW  
 .950  
 .953  
 .955  
 .965  
 1.000  
 -.0659  
 -.0793  
 .0555  
 .0521  
 .0686  
 -.0630 -.0599 -.0515

ALPHA ( 1 ) = -4.005 BETA ( 5 ) = 8.352 MACH = .59638 Q = 594.21 P = 2386.5 RV/L = 4.8411

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP  
 2Y/B4 .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW  
 .010  
 .020  
 .040  
 .050  
 .059  
 .090  
 .081  
 .046  
 .034  
 .150  
 .157  
 .163  
 .177  
 .023  
 .246  
 .250  
 .274  
 .345  
 .390  
 .400  
 .422  
 .503  
 .550  
 .555  
 .600  
 .637  
 .650  
 .670  
 .700  
 .720  
 .750  
 .750  
 -.0189  
 .0105  
 .0020  
 .0029  
 .0129  
 -.0243  
 .0129  
 .0310  
 -.0553  
 -.0182  
 -.1566  
 -.1442  
 -.1370  
 -.2100  
 -.1636  
 -.0129  
 -.2520  
 -.2622  
 -.3097  
 -.3259  
 -.3449  
 -.2043  
 -.1659  
 -.1996  
 -.2381  
 -.2463  
 -.2490  
 -.1583  
 -.1654  
 -.1571  
 -.1687  
 -.2100  
 -.1636  
 -.1757  
 -.1893  
 -.1545  
 -.1510  
 -.0189  
 -.1289  
 -.1903  
 -.2620  
 -.5125  
 -.6022  
 -.6996  
 -.7218  
 -.3314  
 -.2095  
 -.4863  
 -1.3394  
 -.4396  
 -.1469  
 -.1650  
 -.1712  
 -.1586  
 -.1459  
 -.1545  
 -.1510

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## TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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(XEBL61)

ALPHA ( 1 ) = -.4.005 BETA ( 5 ) = 8.352

AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING BOT

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/B4 .2990 .3540 .4270 .5340 .6730 .7800 .8870 .9720

X/CM

.775							
.798							
.808							
.834							
.839							
.850							
.857							
.862							
.865							
.879							
.900							
.905							
.919							
.940							
.953							
.955							
.965							
1.000							

ALPHA ( 2 ) = .015 BETA ( 1 ) = -.7.895 MACH = .59624 Q = 593.85 P = 2386.1 RN/L = 4.8452

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/B4 .2990 .3540 .4270 .5340 .6730 .7800 .8870 .9720

X/CM

.010							
.020							
.040							
.050							
.069							
.080							
.081							
.086							
.094							
.150							
.157							
.163							
.177							
.229							
.246							
.250							
.274							
.340							
.540							

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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(XEBL61)

ALPHA ( 2 ) = .015 BETA ( 1 ) = -7.895 AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING BOT

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/84 .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CH

.400  
.402  
.503  
.550  
.565  
.600  
.637  
.650  
.670  
.700  
.725  
.750  
.760  
.775  
.798  
.808  
.834  
.839  
.850  
.857  
.862  
.865  
.879  
.900  
.905  
.919  
.920  
.923  
.925  
.945  
1.000

-.1140  
-.0920  
-.1440  
-.2639  
-.1574  
-.11193  
-.1309  
-.1402  
-.1639  
-.1552  
-.1610  
-.1340  
-.1245  
-.1065  
-.1409  
-.1450  
-.1164  
-.1846  
-.1704  
-.1749  
-.1511  
-.1926  
-.1578  
-.1578  
-.1542  
-.1354  
-.0626  
-.0801  
-.0549  
-.0586  
-.0700  
.0717  
.0194  
.0489

ALPHA ( 2 ) = .022 BETA ( 2 ) = -3.851 MAC4 = .59624 Q = 593.85 P = 2386.1 RN/L = 4.8432

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/84 .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CH

.010  
.020  
.040  
.050  
.069  
.08C

.0147  
.0300  
.040  
.0204  
-.0229

-.0183  
-.0390  
-.0161  
-.2473  
-.4161  
-.4123  
-.4525  
-.4412  
-.1591

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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(XEL61)

ALPHA ( 2 ) = .022 BETA ( 2 ) = -3.851

AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING BOT

SECTION ( 1 ) LEFT WING BOT SURF

DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.081							
.086							
.094							
.150							
.157							
.163							
.177							
.229							
.246							
.250							
.274							
.345							
.390							
.402							
.503							
.550							
.565							
.600							
.637							
.650							
.670							
.703							
.725							
.750							
.760							
.775							
.798							
.808							
.834							
.839							
.850							
.857							
.862							
.865							
.873							
.900							
.905							
.919							
.950							
.953							
.975							
.965							
1.000							

.081

.086

.094

.150

.157

.163

.177

.229

.246

.250

.274

.345

.390

.402

.503

.550

.565

.600

.637

.650

.670

.703

.725

.750

.760

.775

.798

.808

.834

.839

.850

.857

.862

.865

.873

.900

.905

.919

.950

.953

.975

.965

1.000

-.2295

.0225

-.0320

-.0613

-.1460

-.1241

-.1045

-.0833

-.2307

-.1460

-.1346

-.1408

-.1400

-.1834

-.1399

-.1829

-.1471

-.0789

-.0455

.0654

.0409

.0537

-.1416

-.1352

-.0554

.0537

.0537

.0537

.0537

.0537

.0537

.0537

.0537

.0537

.0537

.0537

.0537

.0537

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.0537

.0537

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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SECTION ( 1 ) LEFT WING BOT SURF	BETA ( 3 ) = .105	MACH = .189	DEPENDENT VARIABLE CP	Q = 593.85	P	(XEBL61)	RN/L = 4.8452	
2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CH	.010	.0632	.0934	-.5164	-.6013	-.5865	-.5175	
	.020	.0587	.0065	-.5137	-.4926	-.5196	-.5808	-.1650
	.040	.0672	-.1353	-.3284	-.3472	-.3864	-.3999	-.1494
	.050							
	.069							
	.080							
	.081							
	.086							
	.094							
	.150							
	.157							
	.163							
	.177							
	.229							
	.246							
	.250							
	.274							
	.345							
	.390							
	.400							
	.402							
	.503							
	.550							
	.565							
	.600							
	.637							
	.650							
	.670							
	.700							
	.725							
	.750							
	.750							
	.775							
	.798							
	.808							
	.834							
	.839							
	.853							
	.857							
	.852							
	.855							
	.879							
	.900							
	.905							
	.919							







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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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(XEBL61)

AMES 11-073(0A148) -140A/E/C/R ORB LEFT WING BOT

ALPHA ( 2 ) = .094 BETA ( 5 ) = 8.317

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/8W .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.400 .402 .503 .550 .565 .600 .637 .650 .670 .700 .725 .750 .760 .775 .798 .808 .834 .839 .850 .857 .862 .865 .879 .900 .905 .919 .940 .944 .945 .955 .965 .980

-.0711 -.0899 -.0887 -.1192

-.2632 -.1244 -.1306 -.1719

-.1341 -.1595

-.1396 -.1887

-.1410 -.1575

-.1403 -.1845 -.1635

-.1176 -.1163 -.1090

-.1315

-.1624

-.1714 -.1750 -.1549 -.1852

-.1349 -.1691

-.1543 -.1577 -.1208

-.1480

-.0778 -.0645 -.0470 -.0549

-.0926

-.0713 .0494 .0740 .0855

ALPHA ( 3 ) = 4.024 BETA ( 1 ) = -7.901 MACH = .59706 Q = 595.26 P = 2385.4 RN/L = 4.8521

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/8W .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.010 .020 .040 .050 .059 .080

.0829 .1485 .3308 .0056 .0358 .1760 .2388

.0000 .1488 .2312 -.0955 .0080 .0327 .0773 .0160

.0720 .1659 .0484 -.0844 -.0464 -.0145 .0151 -.0055

.0699

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ORIGINAL PAGE IS POOR

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(19783X)

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT

ALPHA ( 3 ) = 4.024      BETA ( 1 ) = -7.901

SECTION (1) LEFT WING BOT SURF

2Y/8W	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
-------	-------	-------	-------	-------	-------	-------	-------	-------

[illegible]



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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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(XEBL61)

AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING BOT

ALPHA ( 3 ) = 4.026 BETA ( 2 ) = -3.849

SECTION ( 1 ) LEFT WING BOT SURF

DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CM

.950

.953

.955

1.000

-.0652

-.0767

-.0424

-.0608 -.0644 -.0694

.0664 .0621 .0252

.195 MACH = .59763

Q = 595.26

P = 2385.4

RN/L = 4.8521

ALPHA ( 3 ) = 4.034 BETA ( 3 ) =

SECTION ( 1 ) LEFT WING BOT SURF

DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CM

.010

.020

.040

.050

.069

.080

.081

.086

.094

.150

.157

.163

.177

.229

.246

.250

.274

.345

.390

.420

.402

.503

.550

.565

.600

.637

.650

.670

.700

.725

.750

.760

-.0060

.0514

.1556

.0164

.1617

.1293

.0823

.0470

.0171

.0071

.0195

.0213

-.1558

-.0008

.0060

.0157

-.0283

-.1605

.0136

.0018

-.0041

-.0114

-.0213

-.0491

-.0224

-.0210

-.0673

-.0763

-.0827

-.2506

-.0894

-.1106

-.1343

-.1119

-.2082

-.1894

-.1560

-.1290

-.1792

-.1407

-.2082

-.1894

-.1560

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 2640

AMES 11-07310A148) -140A/B/C/R ORB LEFT WING BOT

(XEBL61)

ALPHA ( 3 ) = 4.034 BETA ( 3 ) = .195

SECTION ( 1 ) LEFT WING BOT SURF

DEPENDENT VARIABLE CP

2Y/BA .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.775							
.798	-.0918	-.1052	-.0900				
.808							
.834	-.1168						
.839							
.850	-.1190						
.857	-.1558						
.862							
.865		-.1652	-.1526	-.2002			-.2007
.879	-.1165						
.900	-.1405						
.905							
.919	-.1647						
.950	-.1433	-.1526					-.1596
.953							
.955	-.0694	-.0687	-.0564	-.0728			
.965	-.0873						
1.000	-.0558						
	.0701	.0703					.0344

ALPHA ( 3 ) = 4.044 BETA ( 4 ) = 4.254 MACH = .59706 Q = 595.26 P = 2385.4 RN/L = 4.8521

SECTION ( 1 ) LEFT WING BOT SURF

DEPENDENT VARIABLE CP

2Y/BA .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.010							
.020	-.2166	-.2262	.2237	.2156	.1825	.2591	.2567
.040	.0000	-.0728	.2585	.1110	.1290	.1449	.1439
.050	-.0547	-.0144	.1741				-.3157
.070				.0659	.0458	.0561	.0558
.080							-.2634
.091				.0332			
.085							
.094	-.0176						
.150				.0160	.0258	.0203	-.0235
.157							-.2043
.163							
.177							
.229							
.246	.0356						
.250							
.274	.0231						
.345				.0083	-.0024	-.0177	-.0457
.350				.0139			
	.0118						-.1768











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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )  
AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING BOT  
ALPHA ( 4 ) = 8.037 BETA ( 2 ) = -3.847

SECTION (	LEFT WING BOT SURF	DEPENDENT VARIABLE CP
2Y/8W	.2930	.3640
	.4270	.5340
		.7800
		.8870
		.9720
X/CH		
.775		
.798		
.808		
.834		
.839		
.850		
.857		
.862		
.865		
.879		
.900		
.905		
.919		
.950		
.953		
.955		
.965		
1.000		

	1.000	.0695	.0693	-.0505			
ALPHA ( 4 ) =	8.042	BETA ( 3 ) =	.196	MACH = .59720	Q	= 595.49	P
SECTION ( : )LEFT WING BOT SURF			DEPENDENT VARIABLE CP				RN/L
2Y/84	.2990	.3640	.4270	.5340	.6730	.7800	.8870
						.9720	

[illegible]



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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 2647

(XEBL61)

ALPHA ( 4 ) = 7.960 BETA ( 4 ) = 4.251

AMES 11-073.0A148) -140A/B/C/R ORB LEFT WING BOT

SECTION ( 1 ) LEFT WING BOT SURF

DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.081	.2014						
.086	.0649						
.034	-.0644						
.150		.1414	.1571	.1657	.0884		
.157							-.3212
.163	.2045						
.177		.1418					
.229	.0469						
.246	.1078						
.250		.1054	.1017	.0891	.0313		
.274		.1041					
.345							-.2955
.390	.0922		.0513	.0531	-.0249		
.400		.0723					-.3331
.402							
.493		-.0199	-.0353				
.550		-.2744					
.565							
.600							
.637							
.650	-.0326						
.670							
.700							
.725							
.750							
.760							
.775							
.798							
.808							
.834							
.839							
.850							
.857							
.862							
.865							
.879							
.900							
.905							
.919							
.950							
.953							
.955							
.965							
1.000							

-.0082

.0528

.0379

-.0552

1.000

1.000



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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 2649

(XEBL61)

ALPHA ( 4 ) = 7.955 BETA ( 5 ) = 8.305

AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING BOT

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW .2930 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.050  
 .953  
 .955  
 .965  
 1.000

-.0799  
 -.0850  
 -.0627

.0426 .0375 -.0147

-.0801 -.0710 -.1171

ALPHA ( 5 ) = 11.943 BETA ( 1 ) = -7.853 MACH = .59660 O = 594.44 P = 2386.0 RN/L = 4.8439

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.010  
 .020  
 .040  
 .050  
 .069  
 .080  
 .081  
 .086  
 .094  
 .150  
 .157  
 .163  
 .177  
 .229  
 .246  
 .250  
 .274  
 .345  
 .390  
 .400  
 .402  
 .503  
 .550  
 .565  
 .600  
 .637  
 .650  
 .670  
 .700  
 .725  
 .750  
 .760

-.3154  
 .0000  
 .0555

-.6518  
 -.1674  
 -.0470

.1367  
 .3839  
 .4550

.5929  
 .5629  
 .4567

.5953  
 .5944  
 .4948

.5145  
 .5876  
 .5842

.4453  
 .5298  
 .4803

.3821

.3706

.2702

.1189

.3688

.1979

.2521

.2334

.2078

.1712  
 .1742

.0769  
 .0690

-.2978

.0503

.0013

-.0142  
 -.0306

-.0932  
 -.0702

-.0270

-.1674

-.0981

-.1678

-.2051

-.4330



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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 2850

(XEBL61)

AMES 11-07310A148) -140A/B/C/R ORB LEFT WING BOT

ALPHA ( 5 ) = 11.943 BETA ( 1 ) = -7.853

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/2H .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CH

.775  
.798  
.808  
.834  
.839  
.850  
.857  
.862  
.865  
.879  
.900  
.905  
.919  
.950  
.953  
.955  
.965  
1.000

-.2887

-.0083  
-.0429  
-.0810  
-.0887  
-.0956  
-.0588  
-.0850  
-.0394  
-.0432  
.0670  
.0572  
-.1283

-.1893

-.1137  
-.1022  
-.0590  
-.0403  
-.0991

-.0572  
-.1283

ALPHA ( 5 ) = 11.962 BETA ( 2 ) = -3.827 MACH = .59660 Q = 534.44 P = 2386.0 RN/L = 4.8439

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/2H .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CH

.010  
.020  
.040  
.050  
.069  
.080  
.086  
.094  
.150  
.157  
.163  
.177  
.229  
.246  
.250  
.274  
.345  
.390

-.6160

-.5470  
.0000  
.040  
.050  
.069  
.080  
.086  
.094  
.150  
.157  
.163  
.177  
.229  
.246  
.250  
.274  
.345  
.390

-.8808  
-.3458  
-.1974  
-.0562  
.069  
.080  
.086  
.094  
.150  
.157  
.163  
.177  
.229  
.246  
.250  
.274  
.345  
.390

-.0798  
.2370  
.3993  
.4397  
.4718  
.4840  
.4256  
-.6160

.5024  
.5167  
.5321  
.5087  
.4401  
-1.0520

.5005  
.5321  
.5087  
.4401  
-1.0520

.3076  
.4401  
-1.0520

.3076  
.4401  
-1.0520

.3076  
.4401  
-1.0520

.3076  
.4401  
-1.0520

.3076  
.4401  
-1.0520

.3076  
.4401  
-1.0520

.3076  
.4401  
-1.0520

.3076  
.4401  
-1.0520

.3076  
.4401  
-1.0520

.3076  
.4401  
-1.0520

.3076  
.4401  
-1.0520

.3076  
.4401  
-1.0520

.3076  
.4401  
-1.0520

.3076  
.4401  
-1.0520

.3076  
.4401  
-1.0520

.3076  
.4401  
-1.0520

.3076  
.4401  
-1.0520

.3076  
.4401  
-1.0520

.3076  
.4401  
-1.0520

.3076  
.4401  
-1.0520

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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(XEBL61)

ALPHA ( 5 ) = 11.962 BETA ( 2 ) = -3.827 AMES 11-073(0A148) -140A/B/C/R OF:8 LEFT WING BOT

SECTION ( 1 ) LEFT WING BOT SURF

DEPENDENT VARIABLE CP

2Y/8X	.2930	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW	.400	.402	.503	.550	.565	.673	.657	.650
	.1743	.1616	.1602	.0843	.0622	.0530	.0530	.0530
	-.2960	-.0449	-.0163	-.0498	-.0303	-.0431	-.0225	-.0374
	-.0452	-.0876	-.1138	-.1271	-.1708	-.0995	-.1055	-.0751
	-.0343	-.0751	-.1158	-.0653	-.0585	-.1188	-.0504	-.0556
	-.0187	.0671	.0534	.197	.59660	.0	.594.44	.2386.0
	1.000	-.1304	.9720	.8870	.8870	.9720	.9720	.9720

X/CW

.400

.402

.503

.550

.565

.673

.657

.650

.670

.700

.725

.750

.750

.775

.798

.808

.834

.839

.852

.857

.862

.865

.873

.890

.905

.919

.950

.953

.955

.965

1.000

ALPHA ( 5 ) = 11.967

BETA ( 3 ) =

SECTION ( 1 ) LEFT WING BOT SURF

DEPENDENT VARIABLE CP

2Y/8X	.2930	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW	.010	.020	.040	.050	.063	.069	.082	.082
	-.7790	-.1101	-.3378	.3815	.3821	.2234	.1483	.1483
	.0020	-.5273	.0637	.4479	.4530	.4189	.3320	-1.2539
	-.1673	-.3711	.3229	.4029	.4314	.4066	.3563	-.7957
	.3403	.3403	.3403	.3403	.3403	.3403	.3403	.3403

X/CW

.010

.020

.040

.050

.063

.069

.082

.082

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 2652

(XEBL61)

ALPHA ( 5 ) = 11.967 BETA ( 3 ) = 197

AMES 11-073(0A148) -148A/B/C/R ORB LEFT WING BOT

SECTION ( 1 ) LEFT WING BOT SURF	DEPENDENT VARIABLE CP							
2Y/BN	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW	.081	.0822	.3253					
.086								
.094	-.0372			.2666	.2937	.2988	.2015	
.150								
.157								
.163								
.177								
.229								
.246								
.250								
.274								
.345								
.390								
.400								
.402								
.423								
.550								
.565								
.600								
.637								
.650								
.670								
.700								
.725								
.750								
.760								
.775								
.798								
.808								
.834								
.839								
.850								
.857								
.862								
.865								
.879								
.900								
.905								
.919								
.950								
.953								
.975								
.981								
1.000								

-.1306

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AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING BOT (XEBL61)

ALPHA ( S ) = 11.963 BETA ( Y ) = 4.259 MACH = .59660 Q = 594.44 P = 2386.0 RN/L = 4.8439

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BA	.2950	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CM								
.01C	-.9979	-.9467	-.5453	.2462	.2483	.0342	-.0392	
.020	.0000	-.6062	-.1105	.3616	.3568	.3176	.2090	-1.4554
.040		-.4703	.2286	.3538	.3760	.3473	.2818	-.9375
.050	-.2867			.3025				
.053								
.080			.2722					
.081		-.0149						
.085				.2384	.2687	.2673	.1692	-.3971
.094	-.1331							
.150		.2380	.2329					
.163								
.177	.0433	.1785		.1950	.1940	.1803	.0971	
.229								
.245			.1908					-.3264
.250		.1699		.1256	.1230		.0231	
.274			.1430					-.3585
.300				.0437	.0212			
.400							-.1013	
.503			-.2979					
.550		.0331						
.555								
.600								
.637								
.650								
.670								
.700								
.725								
.750								
.760								
.775								
.798								
.808								
.834								
.839								
.850								
.857								
.852								
.855								
.873								
.900								
.905								
.919								

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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(XEBL61)

AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING BOT

ALPHA ( 5 ) = 11.963 BETA ( 4 ) = 4.259

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.950  
.953  
.955  
.955  
1.000

-.0777

-.0944

-.0735

-.1513

1.000

.0331

.0212

-.1356

ALPHA ( 5 ) = 11.951 BETA ( 5 ) = 8.316 MACH = .59660 Q = 594.44 P = 2386.0 RN/L = 4.8439

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.010  
.020  
.040  
.050  
.053  
.080  
.081  
.085  
.094  
.150  
.157  
.153  
.177  
.229  
.246  
.250  
.274  
.345  
.390  
.400  
.402  
.503  
.540  
.545  
.600  
.637  
.650  
.670  
.700  
.745  
.750  
.760

-1.2266

-.7293

-.7323

-.3037

-.5339

.1213

.0794

.0864

-.1677

-.2292

.2547

.2493

.1836

.0751

-1.5728

.2908

.3097

.2770

.2026

.2622

.2204

-.0923

-.2327

.1799

.2107

.2109

.2346

.2310

.1212

-.4556

.1734

.1758

.1567

.0678

.1170

.1078

-.0055

.0316

.0157

-.3080

.0225

-.1156

-.0638

-.3441

-.0560

-.0848

-.1617

-.1599

-.0607

-1.0862



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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-07310A148) -140A/B/C/R ORP LEFT WING BOT

(XEBL62) ( 05 AUG 75 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO  
 LREF = 474.8000 IN. YMRP = .0000 IN. YO  
 BREF = 950.0000 IN. ZMRP = 375.0000 IN. ZO  
 SCALE = .0300

ALPHA ( ) = -4.059 BETA ( ) = -3.849 MACH = 1.3925 Q = 599.99 P = 442.06 RVL = 2.9210

## SECTION ( 1 ) LEFT WING BOT SURF

## DEPENDENT VARIABLE CP

2Y/BN	.2990	.3640	.4270	.5340	.6730	.7890	.8870	.9720
X/CN								
.010	-.1781	-.2484	-.1358	-.2775	-.3618	-.2237	-.1944	
.020	.0000	-.2399	-.2500	-.4159	-.5010	-.4143	-.4051	-.4593
.040		-.2325	-.3103					
.050	-.1607			-.4488	-.4299	-.4470	-.4380	-.4946
.069				-.4465				
.081			-.1930					
.086		-.1267						
.094	-.1400			-.4052	-.3932	-.3963	-.4008	-.3094
.150								
.157			-.0383					
.163			-.1772					
.177								
.223	-.1095							
.246		-.1168		-.2202	-.3652	-.3603	-.3710	
.250			-.1637					-.4223
.274								
.345		-.1433		-.1769	-.3152		-.3326	
.400		-.1526						-.3431
.503			-.2828	-.1415	-.1631			
.540								
.546								
.600								
.637	-.0979						-.3217	
.650								
.670				-.3229				-.5132
.700								
.725				-.1747				
.750								
.760								
.775			-.1734					
.798				-.3163	-.3079			
.803								
.834		-.1458						
.839		-.3278						
.850	-.1838	-.3328						
				-.3817	-.2868	-.4060		

## PARAMETRIC DATA

RUDDER = 5.000 SPCBRK = 55.000  
 BDFLAP = 16.300 L-ELVN = -4.000  
 R-ELVN = -4.000 MACH = 1.400

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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(XEBL62)

ALPHA ( 1 ) = -4.059 BETA ( 1 ) = -3.849  
AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING BOT

SECTION ( 1 ) LEFT WING BOT SURF

DEPENDENT VARIABLE CP

2Y/BA .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CM

.857  
.862  
.865  
.879  
.900  
.905  
.919  
.930  
.953  
.975  
.985  
1.000  
-3585  
-3323  
-3406  
-2425  
-4348  
-4134  
-5043  
1.3307  
-3068  
-2218  
-4446  
-4415  
-2312  
-1391  
-2157  
-3596  
1.5313

ALPHA ( 1 ) = -3.922 BETA ( 2 ) = .195 MACH = 1.3925 Q = 593.99 P = 442.08 RN/L = 2.5210

SECTION ( 1 ) LEFT WING BOT SURF

DEPENDENT VARIABLE CP

2Y/BA .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CM

.010  
.020  
.040  
.050  
.069  
.080  
.081  
.086  
.094  
.150  
.157  
.163  
.177  
.229  
.246  
.250  
.274  
.345  
.390  
.400  
.402  
.503  
.550  
.565  
.600  
-0983  
-0000  
-1141  
-1184  
-1086  
-1013  
-0509  
-0930  
-0691  
-0180  
-0769  
-0959  
-1058  
-1141  
-1184  
-1086  
-1013  
-0509  
-0930  
-0691  
-0180  
-0769  
-0959  
-1544  
-3519  
-3663  
-3926  
-1255  
-1099  
-1373  
-1524  
-1034  
-1348  
-3010  
-3272  
-2706  
-3733  
-2557  
-2366  
-4078  
-4090  
-4355  
-4298  
-4249  
-4350  
-4651  
-4587  
-3878  
-3007  
-3936  
-4087  
-4210  
-3234  
-4592  
-3445  
-3594  
-3272



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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

(XEBL82)

AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING BOT

ALPHA ( 1 ) = -3.922 BETA ( 2 ) = .195

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CM	-0750	-01765	-05000
.637			
.650			
.670			
.700			
.725			
.750			
.760			
.775			
.798			
.808			
.834			
.839			
.850			
.857			
.862			
.865			
.879			
.900			
.905			
.919			
.950			
.953			
.955			
.965			
1.000			

2.9210

RN/L

442.06

P

599.99

Q

1.3925

MACH

4.280

BETA ( 3 ) =

-3.930

ALPHA ( 1 ) =

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CM	-0750	-01765	-05000
.010			
.020			
.040			
.050			
.059			
.080			
.081			
.085			
.094			
.150			
.157			
.163			

REPRODUCIBILITY OF THE  
ORIGINAL PAGE IS POOR





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 AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING BOT

(XEBL62)

ALPHA ( 2 ) = .024 BETA ( 1 ) = -3.867  
 SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP  
 2Y/6W .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CM  
 .950  
 .953  
 .955  
 .965  
 1.000  
 -.3881 -.3264 -.4037  
 -.2441  
 -.2887  
 -.2935  
 -.1117 -.2247 -.3704

ALPHA ( 2 ) = .029 BETA ( 2 ) = .185 MACH = 1.3922 Q = 599.78 P 442.06 RN/L = 2.9172

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP  
 2Y/6W .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CM  
 .010  
 .020  
 .040  
 .050  
 .069  
 .080  
 .081  
 .086  
 .094  
 .150  
 .157  
 .153  
 .177  
 .229  
 .246  
 .250  
 .274  
 .345  
 .390  
 .400  
 .402  
 .503  
 .550  
 .565  
 .600  
 .637  
 .650  
 .670  
 .700  
 .725  
 .750  
 .760  
 -.0167 -.0006 .2447 -.0776 -.1937 -.1399 -.0630  
 .0000 -.0068 .2205 -.1808 -.2298 -.2550 -.2844  
 .0033 .0701 -.1066 -.1883 -.2619 -.2970  
 -.0266  
 -.1009  
 .0447  
 -.0401  
 .1168  
 -.0152  
 .0113  
 -.0167  
 -.0094  
 -.0259  
 -.0343 -.0364  
 -.0162 -.0285  
 -.3657  
 -.0053  
 -.0698  
 -.0962  
 -.0905  
 -.2707 -.2631  
 -.1063  
 -.0724 -.1328 -.1745 -.2156  
 -.1840  
 -.0379 -.0535 -.1147 -.1852  
 -.1197  
 -.0672  
 -.0931  
 -.0808  
 -.2828

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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(XEBL62)

AMES 11-073(0A148) -140A/B/C/R ORB LEFT 1.10

ALPHA ( 2 ) = .029 BETA ( 2 ) = .185

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CM

.775							
.798							
.808							
.834							
.839							
.850							
.857							
.862							
.865							
.879							
.900							
.905							
.919							
.950							
.953							
.955							
.965							
1.000							

ALPHA ( 2 ) = .025 BETA ( 3 ) = 4.257 MACH = 1.382 Q = 593.78 P = 442.08 RN/L = 2.9172

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CM

.010							
.020							
.040							
.050							
.060							
.080							
.085							
.094							
.150							
.157							
.163							
.177							
.206							
.250							
.274							
.345							
.410							

(29 TBX)

ALPHA ( 2 ) =	.025	BETA ( 3 ) =	4.257
---------------	------	--------------	-------

SECTION (1) LEFT WING BOT SURF

DEPENDENT VARIABLE CP

2Y/8W					
.2930	.3540	.4270	.5340	.6730	.7800 .8870 .9720

**X/CX**

.400	- .0060	- .0108	- .0503
.402			

**.503** **-.0030**

.550	-.3546	-.0084	-.0073	-.0952
.565				

.600	.0063	-.0643
.637		
.652		
.667		
.682		
.697		
.712		
.727		
.742		
.757		
.772		
.787		
.802		
.817		
.832		
.847		
.862		
.877		
.892		
.907		
.922		
.937		
.952		
.967		
.982		
.997		

1350 -  
- 0521  
Z 0002

-.3043	
-.0821	
-.0805	
.700	
.725	
.750	

	- .0979	- .2670	- .2547
--	---------	---------	---------

.798	-.2570	-.2591
.808	-.0983	-.2522

3367.  
-1091.  
-2610  
0492.-  
638  
638  
834  
458

.850		- .3145	- .2134	- .3274
.857				
.863		- .2981		

.862		
.865	-.2671	
.879		-.3368

.875	-.2839		
.900	-.1801		
.905		-.3613	-.3872

919	-3622	
950	-2711	1097 - 7774

0.753	- .3537	- .3334	- .3773
0.955	- .2933		

	- .965	- .3560	
	1.030		
		- .1125	- .2065
			- .2725

HA (3) =	3.958	BETA (1) =	-3.867	MACH	= 1.3919	0
						0

SECTION 1 LEFT WING BOT SURF

DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
-------	-------	-------	-------	-------	-------	-------	-------	-------

**MJ/CW**

.010	.0523	.0115	.3993	.1831	.1807	.2108
.020	.0000	.0328	.3752	.1705	.0807	.0100
			.2544			
			.1791			

0.40	0.0501	0.1751	0.1705	0.0897	0.0400	0.0910
0.50	0.0493	0.2104	0.0500	0.0216	0.0274	0.0377

.063	.0200	.0210	.0234	.0337
.380	.1519			.0569



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## TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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ALPHA ( 3 ) = 3.958 BETA ( 2 ) = .187 MACH = 1.3919 Q = 599.88 P = 442.29 RN/L = 2.9189  
 SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP (XEBL62)

2Y/84	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X'CM								
.010	-.0325	-.1488	.3457	.3815	.2016	.1897	.2020	
.020	.0000	-.0585	.3507	.2228	.1764	.1104	.0579	.0600
.040		-.0296	.2277					
.050	.0090			.1033	.0595	.0853	.0465	.0365
.069								
.080				.6 37				
.081			.1441					
.086		.0623						
.094	.0025							
.150				.0719	.0812	.0905	.1039	-.0790
.157		.1777						
.163								
.177		.0941						
.229	.0039							
.246		.0874						
.250				.0889	.0843	.0926	.0678	
.274			.0908					.0076
.345		.0799						
.390				.0790	.0919		.0619	
.400		.0714						
.402								
.503				.0780	.0883			-.0263
.550			-.3961					
.565							.0133	
.600		.0701						
.637						.0293		
.650								
.670								
.700								
.725				-.0187				
.730								
.740								
.775								
.798								
.808								
.834								
.873								
.890								
.897								
.925								
.929								
.935								
.919								

-.3445

-.3539

-.2390







AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT

(29783X)

ALPHA ( 4 ) = 7.927      BETA ( 1 ) = -3.866

SECTION: LEFT WING BOT SURF

	SECTION C	LEFT WING BOT SURF	DEPENDENT VARIABLE CP
2Y/BW	.2993	.3640	.5340
		.4270	.6730
			.7800
			.8870
			.9720

MD/X

3.00	.1933	-2.496	.2031
4.32	.1745		
5.03		.1823	.1972
5.50			
5.65	-4.379		
5.65			
5.77			.1225

ALPHA ( 4 ) =	7.932	BETA ( 2 ) =
---------------	-------	--------------

Q

600.00

2

64 65 66

22

3010 E

SECTION ( ) LEFT WING BOT SURF

SECTION ( ) LEFT WING BOT SURF	DEPENDENT VARIABLE CP
2Y/8.4	.2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

FD-36

0.00	- .1289	- .3369	.2881	.5253	.4722	.5317	.5293
.00	.0000	- .1223	.3583	.4219	.4181	.4351	.4204
.00		- .0593	.3250				
.00	.0252			.3202	.2928	.3323	.3686
.080				.2750			.0678



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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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(XEBL62)

AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING BOT

P = 600.00 Q = 441.59 RN/L = 2.9182

ALPHA ( 4 ) = 7.933 BETA ( 3 ) = 4.245 MACH = 1.3932

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/DW	.2370	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.2871	-.4297	.0976	.4863	.4541	.5097	.5077	
.020	.0000	-.2227	.2147	.4204	.4145	.4385	.4251	-.1009
.040		-.1673	.2511					
.050	-.0566			.3204	.3110	.3331	.3700	-.0225
.069				.2616				
.080								
.091		.0031	.1990					
.086								
.094	-.0158			.2068	.2642	.2763	.2910	-.0810
.150								
.157								
.163		.1758	.1730					
.177								
.229	.0221	.1339		.1994	.2256	.2438	.2317	
.246								
.250								
.274			.1844					.0402
.345								
.390		.1541		.1959	.2372		.2194	
.400			.1749					.0161
.402								
.503				.1787	.1931			
.550			-.4292				.0986	
.565								
.600		.1642				.1334		-.2672
.637								
.650								
.670								
.700				.0615	.0715			
.705								
.750						-.1676	-.1428	
.760			.0432					
.775		.0265		-.1165	-.1500			
.778								
.800								
.834	.0245		-.1319					
.839								
.850		-.1508						
.857								
.862			-.1898	-.2108	-.2597	-.2361		-.3503
.865								
.879	-.1633							
.900		-.1985						
.905	-.0923			-.2650			-.3063	
.919		-.2683						
			-.1772					









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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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(XEBL62)

ALPHA ( 5 ) = 11.919 BETA ( 3 ) = 4.258

AMES 11-07310A148) -140A/B/C/R ORB LEFT WING BOT

SECTION ( 1 ) LEFT WING BOT SURF	DEPENDENT VARIABLE CP				
2Y/8H	.2990	.3640	.4270	.5340	.6730 .7800 .8870 .9720
X/CH	.081	.086	.094	.150	.157
	.177	.229	.246	.250	.274
	.345	.390	.400	.402	.503
	.550	.565	.600	.637	.650
	.670	.700	.725	.750	.760
	.775	.798	.808	.834	.839
	.850	.857	.862	.865	.879
	.900	.905	.919	.950	.953
	.955	.965	1.000		
	.0277	.0144	.2347	.0730	.1973
	.2541	.3178	.3775	.4143	.4237
	.2804	.3024	.3431	.3806	.3561
	.2439	.3057	.3557	.3144	.0824
	.2766	.2744	.2917	.0655	
	-.4515	.1700	.2094	-.2232	
	.2529	.1343	.1473	-.1160	-.0898
	.1197	-.0366	-.1020		
	.0985	-.0610			
	.0960	-.0860	-.1198	-.1405	-.2151
	-.1088	-.1354	-.2046	-.2075	-.2569
	-.0465	-.1293	-.2730	-.2616	-.2915
	-.1162	-.1522	-.1921	-.1860	-.4483
	-.2795	-.1860	-.4483		
	-.3166				







DATE 10 FEB 76

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAC- 2578

(XEBL62)

AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING BOT

ALPHA ( 6 ) = 15.916 BETA ( 3 ) = 4.288

SECTION ( 1 ) LEFT WING BOT SURF	DEPENDENT VARIABLE CP			
2Y/B4	.2990	.3640	.4270	.5340 .6730 .7800 .8870 .9720
X/CM				
.400				
.402				
.503		.3826		.4145 .4732 .4083
.550				.3915 .3929 .1104
.565				
.600				
.637				
.650				
.670				
.700				
.705				
.710				
.775				
.748				
.808				
.844				
.850				
.857				
.862				
.865				
.873				
.900				
.905				
.919				
.950				
.953				
.955				
.965				
1.003				

DATE 10 FEB 76

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 2579

AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING BOT (XEBL63) ( 05 AUG 75 )

## REFERENCE DATA

SEFF = 25730.0000 SQ.FT. XMRP = 1076.6800 IN. XO  
 LREF = 4774.0000 IN. YMRP = .0000 IN. YO  
 BWFF = 932.0000 IN. ZMRP = 375.0000 IN. ZO  
 SCALE = .0300

## PARAMETRIC DATA

RUDDER = 5.000 SPDBRK = 55.000  
 BDFLAP = 16.300 L-ELVN = -4.000  
 R-ELVN = -4.000 MACH = 1.250

ALPHA ( ) = -4.050 BETA ( ) = -3.840 MACH = 1.2459 Q = 600.11 P = 552.28 RN/L = 3.0241

## SECTION ( ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BA .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

## X/CW

.010	-.1562	-.2922	-.2060	-.4086	-.5123	-.3567	-.3304
.020	.0000	-.2773	-.3135	-.5560	-.5514	-.5705	-.5637
.040		-.2724	-.3450				-.6082
.050	-.1561			-.5791	-.5810	-.6051	-.5921
.069							-.6622
.080				-.5405			
.081			-.2394				
.085		-.1455					
.094	-.1527			-.5007	-.5190	-.5343	-.5442
.152		-.0530					-.3871
.157			-.2185				
.177	-.1343						
.229		-.1398					
.246			-.1996	-.2448	-.4670	-.4828	-.5034
.250							
.274							
.345							-.5978
.393		-.1680					
.400			-.1707	-.2007	-.2918		-.4482
.402							
.503				-.1441	-.1778		-.5870
.510			-.3819				
.560							
.600		-.1117				-.4229	
.637							
.650						-.2259	-.6348
.672							
.700							
.725				-.1984	-.2202		
.750							
.760			-.1736	-.3746	-.2961	-.3927	-.5565
.775							
.799		-.1552					
.818		-.3916					
.834	-.2024						
.859		-.3694		-.4547	-.3570	-.4570	
.860							



DATE 10 FEB 76 TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )  
 AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING BOT

(XEBL63)

ALPHA ( 1 ) = -3.916 BETA ( 2 ) = .196

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP  
 2Y/84 .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW  
 .637  
 .650  
 .670  
 .700  
 .725  
 .750  
 .760  
 .775  
 .798  
 .808  
 .834  
 .839  
 .850  
 .857  
 .862  
 .865  
 .879  
 .900  
 .905  
 .919  
 .950  
 .953  
 .955  
 .955  
 1.000

ALPHA ( 1 ) = -3.923 BETA ( 3 ) = 4.275 MACH = 1.2459 Q = 600.11 P = 552.28 RN/L = 3.024

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP  
 2Y/84 .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW  
 .010  
 .020  
 .040  
 .050  
 .060  
 .080  
 .090  
 .100  
 .110  
 .120  
 .130  
 .140  
 .150  
 .160  
 .170  
 .180  
 .190  
 .200

-4031





DATE 10 FEB 75 TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING BOT (XEBL63)

ALPHA ( 2 ) = .044 BETA ( 1 ) = -3.864 MACH = 1.2451 Q = 599.58 P = 552.51 RN/L = 3.0238

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/3W	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	.0032	.0087	.2037	-.1836	-.2965	-.2203	-.1312	
.020	.0000	-.0246	.1715	-.3274	-.3556	-.3652	-.3947	-.3266
.040		-.0232	-.0155					
.050	-.0334			-.2464	-.3411	-.3814	-.4047	-.3605
.069								
.080				-.2145				
.081			-.0532					
.085		.0208						
.094	-.0612			-.1432	-.2305	-.2744	-.3212	-.2323
.150								
.157		.0904						
.163			-.0662					
.177	-.0626							
.229		-.0289		-.0892	-.0982	-.2033	-.2688	
.246			-.0634					-.2245
.250								
.274								
.345								
.370		-.0450		-.0681	-.0681		-.1145	
.400			-.0570					-.1452
.402								
.503				-.0362	-.0503			
.540			-.4196				-.1095	
.545								
.600		-.0237			-.0966			-.3440
.637								
.650								
.670				-.1191	-.1264			
.700								
.705						-.3152	-.3345	
.730			-.1177					
.750				-.3264	-.2725			
.775		-.0971						
.798			-.3279					
.829								
.844	-.1403	-.3430		-.4028	-.2808	-.4174		-.4099
.849			-.3863					
.872								
.887								
.892								
.949	-.3493	-.3165						
.950	-.2038		-.4296				-.4679	
.955			-.4675					
.959		-.3339						



DATE 10 FEB 76 TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )  
 AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING BOT

.XERL631

ALPHA ( 2 ) = .050 BETA ( 2 ) = .180

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CH

.775 -.3304 -.3008

.798 -.1124

.808 -.3239

.834 -.1357

.839 -.3369

.850 -.3791

.857 -.3970

.862 -.2745

.865 -.4117

.879 -.3986

.903 -.4499

.905 -.4565

.919 -.3336

.950 -.4568

.953 -.4916

.955 -.4309

.965 -.3691

1.000 -.4007

-.1480

-.2309

-.1497

ALPHA ( 2 ) = .046 BETA ( 3 ) = 4.256 MACH = 1.2451 Q = 599.98 P = 552.51 RV/L = 3.0239

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CH

.010

.020

.040

.050

.069

.080

.081

.086

.094

.150

.157

.163

.177

.229

.246

.250

.274

.345

.510

-.1235

-.0603

-.0371

-.0200

.0853

.0513

.0487

.1319

.0005

-.0568

.0347

.0117

-.0170

-.0426

-.0551

-.0898

-.0948

.2912

.2630

-.2643

-.1947

-.0486

-.0576

-.1760

-.3465

-.4210

-.1861

-.1074

-.2282

-.2730

-.3448

-.1812

-.0743

-.0613

-.0855

-.0985

-.1145

-.1434

DATE 10 FEB 76

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 2686

AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING BOT

(XEBL63)

ALPHA ( 2 ) = .046 BETA ( 3 ) = 4.256

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/DW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.400							
.402	.0093	.0011	.0096			-.0609	
.503							-.1207
.550		-.0029	-.0073				
.565		-.4051				-.0863	
.600							
.637	.0020				-.0639		
.650							
.670							-.3784
.700			-.1057	-.1036			
.725					-.3197	-.3387	
.750							
.760			-.1178	-.3333	-.3062		
.775							
.798		-.1117	-.3307				
.808							
.834							
.839							
.850							
.857							
.862							
.865							
.879		-.3378					
.900		-.2246					
.905							
.919							
.950							
.953							
.945							
.965							
1.000							

ALPHA ( 3 ) = 3.990 BETA ( 1 ) = -3.864 MACH = 1.2448 O = 599.34 P = 552.51 RN/L = 3.0213

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/DW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.010							
.020	-.0354	-.0455	.4332	.2398	.1251	.1351	.1641
.040	.0000	-.0026	.3944	.1284	.1139	.0522	.0033
.050		.0206	.2173				
.069	.0360			.0510	.0071	.0351	.0202
.080							.0339



DATE 10 FEB 76

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 2688

(XEBL63)

AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING BOT

RN/L = 3.0213

P = 592.51

Q = 599.34

MACH = 1.2448

BETA ( 2 ) = .185

ALPHA ( 3 ) = 3.931

SECTION ( 1 ) LEFT WING BOT SURF

DEPENDENT VARIABLE CP

27/84 .2930 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.010	-.0960	-.2287	.3683	.2849	.1654	.1630	.1971
.020	.0000	-.1103	.3701	.1770	.1440	.0987	.0522
.040		-.0719	.2507				.0247
.050	-.0223			.1114	.0460	.0702	.0607
.069				.0965			.0048
.080			.1527				
.081		.0641					
.086							
.094	-.0234			.0668	.0973	.0942	.0847
.152							-.0944
.157		.1998					
.163			.0970				
.177							
.229	-.0234	.0885		.0909	.0804	.0838	.0460
.246			.1056				-.0039
.253							
.274		.0944		.0989	.1132	.0724	
.330			.0897				-.0454
.400				.0918	.0961		
.402							
.503							
.550							
.565							
.600							
.637		.0987					
.650							
.670					.0129		
.700							
.724							
.736							
.760							
.775							
.798							
.829							
.834							
.839							
.850							
.857							
.862							
.865							
.875							
.879							
.900							
.905							
.919							

DATE 10 FEB 76

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 2689

(XE8L63)

AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING BOT

ALPHA ( 3 ) = 3.991 BETA ( 2 ) = .185

SECTION ( 1 ) LEFT WING BOT SURF

DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

-.4494 -.3375 -.4416

.950

-.3833

.953

-.2980

.965

-.3535

1.000

-.0962

-.2037

-.2488

ALPHA ( 3 ) = 3.994 BETA ( 3 ) = 4.245 MACH = 1.2448 Q = 599.34 P = 552.51 RV/L = 3.0213

SECTION ( 1 ) LEFT WING BOT SURF

DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.010

.2512

.2512

.020

.2767

.2094

.2370

.040

.3203

.1801

.1722

.040

.2637

.1702

.0960

.1117

.069

.1371

.1117

.1233

.080

.1740

.1371

.1233

.095

.0112

.1198

.1117

.094

.0752

.1010

.1240

.1117

.157

.1777

.1133

.1081

.163

.1133

.1133

.1133

.177

.0957

.0955

.0759

.229

.246

.1143

.1148

.246

.250

.1214

.0759

.274

.1114

.1114

.0951

.345

.1114

.1114

.0951

.390

.1114

.1114

.0951

.400

.1154

.1154

.0951

.402

.1154

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.0951

.503

.1154

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.0951

.550

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.555

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.600

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.0951

.637

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.0951

.650

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.0951

.670

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.0951

.700

.1154

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.0951

.750

.1154

.1154

.0951



DATE 10 FEB 76

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 2690

(XEBL63)

ALPHA ( 3 ) = 3.994 BETA ( 3 ) = 4.245

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/C4

.775 -.0651 -.2591 -.2784

.798 -.2580

.808

.834

.839

.850

.857

.862

.865

.879

.900

.905

.919

.950

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ALPHA ( 4 ) = 7.968 BETA ( 1 ) = -3.863 MACH = 1.2457 Q = 599.38 P = 551.80 RN/L = 3.0207

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/C4

.010

.010

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DATE 10 FEB 76

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 2691

(XEBL63)

ALPHA ( 4 ) = 7.968 BETA ( 1 ) = -3.863

AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING BOT

SECTION ( 1 ) LEFT WING BOT SURF

DEPENDENT VARIABLE CP

2Y/HW	.2920	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.400								
.402			.1978	.2192	.2902		.2233	
.503								
.550				.1993	.1896			.0462
.565								
.600								
.637								
.650		.1727						
.670						.1058		
.700								
.725				.0391	.0335			
.750								
.760			.0227					
.775								
.798		.0181						
.808								
.834	.0080							
.839								
.850								
.857								
.862								
.865								
.879								
.900								
.905								
.919								
.920								
.933								
.935								
.965								
1.000								

X/CW

.400

.402

.503

.550

.565

.600

.637

.650

.670

.700

.725

.750

.760

.775

.798

.808

.834

.839

.850

.857

.862

.865

.879

.900

.905

.919

.920

.933

.935

.965

1.000

ALPHA ( 4 ) = 7.973 BETA ( 2 ) =

.179 MACH = 1.2457 0 = 599.38 P = 551.80 RN/L = 3.0207

SECTION ( 1 ) LEFT WING BOT SURF

DEPENDENT VARIABLE CP

2Y/HW	.2930	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010								
.020								
.040								
.050								
.069								
.080								

X/CW

.010

.020

.040

.050

.069

.080

DATE 10 FEB 76

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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(XEBL63)

AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING BOT

ALPHA ( 4 ) = 7.973 BETA ( 2 ) = .179

SECTION: ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3540	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.081			.2586					
.086		.0367						
.034	.0056			.2469	.2851	.3095	.2986	
.150								
.157		.2422						
.163			.2199					
.177								
.229	.0243							
.246		.1538						
.260			.2192	.2334	.2549	.2908	.2357	
.274								.0347
.345								
.330	.2005			.2403	.2934		.2165	
.400		.2192						
.402								
.503				.2119	.2015			.0041
.510								
.533								
.530						.0646		
.637		.1941						
.650						.1033		
.670								
.700				.0403				
.725								
.750								
.760			.0305					
.775								
.793		.0174						
.808								
.834	.0122							
.839								
.850								
.857								
.862								
.865								
.873								
.900								
.905								
.913								
.950								
.953								
.965								
.969								
.970								
.971								
.972								
.973								
.974								
.975								
.976								
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.978								
.979								
.980								
.981								
.982								
.983								
.984								
.985								
.986								
.987								
.988								
.989								
.990								
.991								
.992								
.993								
.994								
.995								
.996								
.997								
.998								
.999								
1.000								

- .3836

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ALPHA ( 4 ) = 7.997 BETA ( 3 ) = 4.244 MACH = 1.2457 Q = 599.38 P = 551.80 RN/L = 3.0207  
(XEBL63)

SECTION / LEFT WING BOT SURF	DEPENDENT VARIABLE CP	Q	P	RN/L
2Y/BA	.5340 .6730 .7800 .8870 .9720			
X/CW				
0.0	.0647 .5101 .4827 .5257 .5326			
.020	-.3044 .4337 .4393 .4547 .4678			
.040	-.2411 .2622 .3456 .3463 .3585			
.050	-.1076 .2888 .2523 .2911 .3208			
.060	.2107 .2523 .2911 .3208 .3012			
.080	.2107 .2523 .2911 .3208 .3012			
.091	.2107 .2523 .2911 .3208 .3012			
.095	.2107 .2523 .2911 .3208 .3012			
.094	.2107 .2523 .2911 .3208 .3012			
.150	.1805 .2067 .2347 .2757 .3001			
.157	.1805 .2067 .2347 .2757 .3001			
.163	.1805 .2067 .2347 .2757 .3001			
.177	.1805 .2067 .2347 .2757 .3001			
.229	.1293 .2021 .2325 .2525 .2835			
.246	.1293 .2021 .2325 .2525 .2835			
.250	.1293 .2021 .2325 .2525 .2835			
.274	.2021 .2325 .2525 .2835 .2028			
.345	.2021 .2325 .2525 .2835 .2028			
.370	.2021 .2325 .2525 .2835 .2028			
.400	.2021 .2325 .2525 .2835 .2028			
.402	.2021 .2325 .2525 .2835 .2028			
.503	.2045 .1980 .0450 .0909 .3638			
.550	.2045 .1980 .0450 .0909 .3638			
.555	.2045 .1980 .0450 .0909 .3638			
.600	.0359 .0336 .0271 .2347 .0450			
.637	.0359 .0336 .0271 .2347 .0450			
.650	.0359 .0336 .0271 .2347 .0450			
.670	.0359 .0336 .0271 .2347 .0450			
.700	.0359 .0336 .0271 .2347 .0450			
.715	.0359 .0336 .0271 .2347 .0450			
.740	.0359 .0336 .0271 .2347 .0450			
.760	.0359 .0336 .0271 .2347 .0450			
.775	.0359 .0336 .0271 .2347 .0450			
.808	.0359 .0336 .0271 .2347 .0450			
.844	.0359 .0336 .0271 .2347 .0450			
.850	.0359 .0336 .0271 .2347 .0450			
.857	.0359 .0336 .0271 .2347 .0450			
.852	.0359 .0336 .0271 .2347 .0450			
.855	.0359 .0336 .0271 .2347 .0450			
.873	.0359 .0336 .0271 .2347 .0450			
.870	.0359 .0336 .0271 .2347 .0450			
.875	.0359 .0336 .0271 .2347 .0450			
.879	.0359 .0336 .0271 .2347 .0450			
.883	.0359 .0336 .0271 .2347 .0450			
.886	.0359 .0336 .0271 .2347 .0450			
.889	.0359 .0336 .0271 .2347 .0450			
.892	.0359 .0336 .0271 .2347 .0450			
.895	.0359 .0336 .0271 .2347 .0450			
.898	.0359 .0336 .0271 .2347 .0450			
.901	.0359 .0336 .0271 .2347 .0450			
.904	.0359 .0336 .0271 .2347 .0450			
.907	.0359 .0336 .0271 .2347 .0450			
.910	.0359 .0336 .0271 .2347 .0450			
.913	.0359 .0336 .0271 .2347 .0450			



(XEBL63)

DATE 10 FEB 76 TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

AMES 11-073(0A148) -140A/B/C/P ORB LEFT WING BOT

ALPHA ( 5 ) = 11.969 BETA ( 1 ) = -3.850

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW .2900 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.775							
.798							
.839							
.834							
.839							
.650							
.657							
.852							
.865							
.879							
.900							
.905							
.919							
.950							
.953							
.955							
.965							
1.000							

ALPHA ( 5 ) = 11.877 BETA ( 2 ) = .185 MACH = 1.2456 0 = 599.56 P = 552.04 RN/L = 3.0223

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW .2900 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.010							
.020							
.040							
.059							
.080							
.081							
.086							
.034							
.150							
.167							
.163							
.177							
.229							
.245							
.250							
.277							
.345							
.330							

(XEBL63)

DATE 10 FEB 76  
 TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )  
 AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING BOT

ALPHA ( 5 ) = 11.877 BETA ( 2 ) = .185

SECTION 1 : LEFT WING BOT SURF DEPENDENT VARIABLE CP

27/84 .2990 .3540 .4270 .5340 .6730 .7800 .8870 .9720

X/CW .3694 .3902 .3057 .0497

.3655 .2985 .2897 .1305

-.5893 .1663 -.3073

.2852 .1179

.1072 -.1891 -.1693

.0932 -.1129 -.1923

.0758 -.1437

.0692 -.2418 -.3130 -.2630

-.2162 -.4037

-.1899 -.2102

-.0484 -.3178 -.3618

-.1741 -.3979 -.3337 -.3992

-.2580

-.1962 -.2921 -.5270

-.2936

ALPHA ( 5 ) = 11.890 BETA ( 3 ) = 4.256 MACH = 1.2456 Q = 599.56 P = 552.04 RN/L = 3.0223

SECTION 1 : LEFT WING BOT SURF DEPENDENT VARIABLE CP

27/84 .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW .5248 .5653 .5455

-.0648 -.5454 -.5871 .5644

.0000 -.1282 .5871 .5644

-.0048 .4624 .5102 .5298 .5266

-.1440

.4133

K

(XEBL 63)

DATE 10 FEB 76  
TABULATED PRESSURE DATA - QAI48 ( AMES 11-073-1 )  
AMES 11-073(QAI48) -140A/B/C/R ORB LEFT WING BOT

A\_PWA ( 5 ) = 11.890 BETA ( 3 ) = 4.256

SECTION: 11 LEFT WING BOT SURF

2v/2d	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
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**MJ/X**

[illegible]



DATE 10 FEB 76

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORG LEFT WING BOT

(XEBL64) ( 05 AUG 75 )

## REFERENCE DATA

SREF = 2690.0000 SQ. FT. XMRP = 1076.6800 IN. XO  
 LREF = 474.8000 IN. YMRP = .0000 IN. YO  
 BRP = 936.0000 IN. ZMRP = 375.0000 IN. ZO  
 SCALE = .0300

## PARAMETRIC DATA

RUDDER = 5.000 SPOBRX = 55.000  
 BDFLAP = 16.300 L-ELVN = -4.000  
 R-ELVN = -4.000 MACH = 1.100

ALPHA ( 1 ) = -3.951 BETA ( 1 ) = -3.840 MACH = 1.0981 Q = 598.93 P = 709.54 RN/L = 3.1905

## SECTION ( 1 ) LEFT WING BOT SURF

## DEPENDENT VARIABLE CP

27/64 .2590 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CH

.010	-.1636	-.3313	-.2809	-.6186	-.7416	-.5562	-.5484
.020	.0000	-.3055	-.3444	-.7767	-.7773	-.8080	-.8417
.030	-.2917	-.3391					
.050	-.1798			-.7206	-.7992	-.8391	-.8309
.069				-.7024			-.9308
.080			-.2873				
.081	-.1409						
.086	-.1843						
.094				-.4624	-.7001	-.7339	-.7676
.150		-.0628					-.5170
.157							
.163							
.177			-.2418				
.229	-.1506						
.246		-.1282					
.250			-.1947	-.2728	-.5008	-.6695	-.6987
.274							-.8445
.345	-.1476			-.1535	-.1420		-.6175
.400		-.1232					-.8152
.402			-.4555	-.1223	-.1434		
.503						-.2280	
.505							
.500							
.637	-.1092						
.650					-.1594		-.7274
.670							
.700		-.2397		-.2138			
.725						-.3812	-.4584
.750		-.1499					
.775			-.4994	-.3516			
.798	-.1639						
.809	-.5121						
.834	-.2274						
.839		-.4865					
.850			-.5569	-.4105	-.5579		

REPRODUCIBILITY OF THE  
 ORIGINAL PAGE IS POOR





(49783X)

AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING BOT

ALPHA ( 1 ) = -3.942    BETA ( 3 ) = 4.273

SECTION ( ) LEFT WING BOT SURF

DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
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**MJ/K**

[illegible]

DATE 10 FEB 76 TABULATED PRESSURE DATA - QAI48 ( AMES 11-073-1 )

(XEBL64)

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT

ALPHA ( 2 ) = .059 BETA ( 1 ) = -3.863 MACH = 1.0998 Q = 599.80 P = 708.37 RN/L = 3.1909

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.0477	-.0106	.2104	-.3358	-.4718	-.4019	-.3149	
.020	.0000	-.0393	.1298	-.4895	-.5570	-.5651	-.5974	-.4025
.040	-.0877	-.0287	-.0650	-.3131	-.4651	-.5623	-.6029	-.4265
.069				-.2616				
.081			-.0617					
.085		.0235						
.094	-.1063			-.1786	-.2154	-.3671	-.4667	-.2164
.150								
.157		.0877						
.163			-.0852					
.177	-.0788							
.229		-.0239		-.0620	-.0939	-.0946	-.0824	
.246			-.0451					-.0836
.250								
.274		-.0135		.0014	.0156		-.0050	
.345			.0069					-.1453
.390				-.0069	-.0397			
.400			-.5066					
.402								
.503								
.550								
.565								
.600								
.637		-.0035						
.650						-.0879		-.4233
.670								
.700				-.1444	-.1311			
.715								
.750			-.1134	-.4110	-.2759	-.3845	-.4702	
.775								
.798		-.0977	-.4371					
.808								
.844		-.1576						
.839			-.4269					
.857				-.5104	-.3835	-.5324		
.852			-.5009					-.3882
.855								
.873		-.4491						
.873		-.4473						
.900		-.2676		-.5195			-.3078	
.925			-.4525					
.919		-.4236						

DATE 10 FEB 76 TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )  
 AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING BOT (XEBL64)

ALPHA ( 2 ) = .059 BETA ( 1 ) = -3.863

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.950 -.2604 -.6593 -.1634

.953 -.2461

.955 -.2311

.965 -.4318

1.000

.1037 -.1876 -.1344

ALPHA ( 2 ) = .062 BETA ( 2 ) = .183 MACH = 1.0998 Q = 589.80 P = 708.37 RN/L = 3.1909

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.010 -.1017 -.0127 .2892 -.2718 -.4506 -.4208 -.3331

.020 .0000 -.0170 .2237 -.2491 -.4133 -.5392 -.5877

.040 .0000 .0041 .0619

.050 -.1072

.069 -.2368 -.3638 -.4354 -.4770

.080 -.1560

.091 .0071

.086 .0636

.094 -.1077

.150

.157

.163

.177

.177

.229

.246

.250

.274

.345

.390

.400

.402

.503

.550

.565

.600

.637

.650

.670

.700

.750

.760

.0010

.0078

-.6024

-.0132

-.1383

-.1521

-.1091

-.4430

-.3642

-.4918

-.1371

-.1440

-.0959

-.1640

-.1405

DATE 10 FEB 76 TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

(XEBLS4)

AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING BOT

ALPHA ( 2 ) = .062 BETA ( 2 ) = .183

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.775 -.1260 -.4201 -.3479

.798

.808 -.4406

.834

.839 -.4251

.850

.857 -.5129 -.3659 -.5499

.865

.879 -.4781

.900

.905 -.4323

.919

.953 -.4137

.965

1.000 -.5288

ALPHA ( 2 ) = .059 BETA ( 3 ) = 4.253 MACH = 1.0998 Q = 599.80 P = 709.37 RN/L = 3.1909

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.010

.020

.040

.069

.080

.081

.085

.094

.150

.157

.163

.177

.229

.245

.250

.274

.345

.390

-.1602

-.1654

-.1573

-.1011

-.1373

DATE 10 FEB 76

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 2705

ALPHA ( 2 ) = .059 BETA ( 3 ) = 4.253

(XEBL64)

AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING BOT

SECTION ( 1 ) LEFT WING BOT SURF	DEPENDENT VARIABLE CP				
2Y/B4	.2990	.3540	.4270	.5340	.6730 .7800 .8870 .9720
X/C4					
.400				.0230	.0281
.402			.0342		-.0482
.503					
.550				-.0242	-.0487
.565			-.5020		
.600					-.1661
.637		-.0180			
.650					
.670				-.1348	
.700					-.4701
.725			-.1751		
.750				-.3904	-.5064
.760		-.1694			
.775			-.4581	-.4265	
.798		-.1566	-.4332		
.838					
.834					
.839					
.850		-.1758	-.4136		
.857				-.5286	-.3480
.802			-.4578		-.5563
.865		-.4296			
.879					-.3550
.900		-.2877		-.5867	
.905			-.5411		-.6370
.919					
.950			-.4012	-.3378	-.5973
.953					-.3624
.955			-.4731		
.965		-.5486		-.2702	-.2033
1.000			-.1625		

ALPHA ( 3 ) = 4.021 BETA ( 1 ) = -3.865 MACH = 1.0995 Q = 600.25 P = 709.31 RN/L = 3.1949

SECTION ( 1 ) LEFT WING BOT SURF	DEPENDENT VARIABLE CP				
2Y/B4	.2990	.3540	.4270	.5340	.6730 .7800 .8870 .9720
X/C4					
.010		-.0344	-.0646	.4614	.2001
.020		.0000	-.0063	.4061	.0987
.240			.0242	.2472	.0932
.251		-.0211			.1076
.259				.0508	.0419
.282				.0706	.0951
					.0410
					.0501



DATE 10 FEB 76

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )  
AMES 11-07310A148) -140A/B/C/R ORB LEFT WING BOT

(XEBLS4)

ALPHA ( 3 ) = 4.021 BETA ( 1 ) = -3.865

SECTION ( 1 ) LEFT WING BOT SURF	DEPENDENT VARIABLE CP	
27.84	.2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720	
X/CM		
.081	.1339	
.086	.1202	
.094	-.0453	
.150	.1001 .1307 .1418 .1038	-.0757
.157	.2331	
.163	.0938	
.177	-.0418	
.229	.0813	
.246	.1500 .1355 .1299 .0721	-.0187
.250	.1483	
.274	.1500	
.345	.1784	.0911
.390	.1630 .1694	-.0753
.400	.0935 .0612	
.402	-.5772	-.0595
.503	.1000	-.0323
.550		-.4313
.565		
.601		
.637		
.650		
.670		
.700		
.725		
.750		
.760		
.775		
.798		
.808		
.834		
.839		
.850		
.857		
.882		
.885		
.879		
.900		
.935		
.919		
.950		
.953		
.955		
.965		
.985		
1.000		

REPRODUCIBILITY OF THE  
ORIGINAL PAGE IS POOR

ALPHA ( 2 ) = 4.021 BETA ( 2 ) = .178 MACH = 1.0995 Q = 500.25 P = 709.31 RN/L = 3.1949  
AYES 11-073(0A148) -140A/B/C/R ORB LEFT WING BOT (XEBL64)

SECTION 10111 1 10111035

DEPENDENT VARIABLE CP

2Y/0M	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
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DATE 10 FEB 76

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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(XEBL64)

AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING BOT

ALPHA ( 3 ) = 4.021 BETA ( 2 ) = .178

SECTION ( 1 ) LEFT WING BOT SURF

DEPENDENT VARIABLE CP

2Y/BW .2390 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.950 -.2262 -.5657 -.5169

.953 -.2683

.955 -.4137

.965 -.4716

1.000 -.0997 -.1756 -.2287

ALPHA ( 3 ) = 4.024 BETA ( 3 ) = 4.243 MACH = 1.0995 Q = 600.25 P = 709.31 RN/L = 3.1949

SECTION ( 1 ) LEFT WING BOT SURF

DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.010 -.3598 -.3312 .3930 .3805 .2746 .3206 .3250

.020 .0000 -.1769 .4110 .2754 .2400 .2324 .2305

.040 .0400 -.1286 .3397 .2208 .1701 .1619 .1760

.050 -.1720

.069 .069

.080 .080

.091 .091

.086 .086

.074 .074

.150 .150

.157 .157

.163 .163

.177 .177

.229 .229

.246 .246

.250 .250

.274 .274

.345 .345

.390 .390

.400 .400

.402 .402

.533 .533

.550 .550

.565 .565

.600 .600

.637 .637

.650 .650

.670 .670

.700 .700

.724 .724

.750 .750

.760 .760







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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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(XEBL64)

AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING BOT

RN/L = 3.1554

P = 709.31

Q = 600.25

ALPHA ( 4 ) = 7.900 BETA ( 3 ) = 4.237 MACH = 1.0995

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/8X .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/C4

.010	-.5499	-.4394	.1850	.5834	.5378	.5486	.5113
.020	.0000	-.3451	.3316	.5191	.5033	.4950	.4622
.040	-.1931	-.2790	.4106	.4410	.4188	.4116	.3665
.050				.3854			-.2042
.080							
.091		-.0298	.3819				
.086							
.034	-.1300			.3359	.3399	.3372	.2597
.150							-.1511
.157							
.163		.3250					
.177			.3466				
.229	-.0670	.2883					
.246				.3042	.2986	.2801	.1954
.250			.3108				-.1036
.274							
.345		.3053		.2548	.2515		.1385
.347			.2804				-.1249
.400				.1613	.1380		
.402			-.6337			-.0476	
.503							
.550							
.565							
.600		.1646				-.0020	-.4987
.637							
.650							
.670							
.700				-.0312		-.3790	-.3677
.725							
.750			-.0531				
.760				.3360	-.3712		
.775							
.799		-.0588					
.813			-.3359				
.844	-.0635						
.870		-.3315					
.890				-.4360	-.3047	-.4661	-.5362
.897			-.3510				
.922							
.945	-.3572		-.3139				
.979							-.5628
.980	-.1921			-.5271			
.995			-.4395				
.999							





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## TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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(XEBLS4)

AMES 11-07310A148) -140A/B/C/R ORP LEFT WING BOT

ALPHA ( 5 ) = 11.919 BETA ( 1 ) = -3.844

## SECTION ( 1 ) LEFT WING BOT SURF

2Y/BW	X/CM	DEPENDENT VARIABLE CP
.2990	.3640	.4270 .5340 .6730 .7800 .8870 .9720
.775		
.798		
.809		
.834		
.839		
.850		
.857		
.884		
.885		
.879		
.900		
.905		
.919		
.950		
.953		
.955		
.963		
1.000		

ALPHA ( 5 ) = 11.930 BETA ( 2 ) =

## SECTION ( 1 ) LEFT WING BOT SURF

2Y/BW	X/CM	DEPENDENT VARIABLE CP
.2990	.3640	.4270 .5340 .6730 .7800 .8870 .9720
.010		
.020		
.040		
.050		
.059		
.080		
.081		
.086		
.094		
.150		
.157		
.163		
.177		
.229		
.246		
.250		
.274		
.345		
.390		

P = 599.84 Q = 710.72 RV/L = 3.1951

DATE 10 FEB 76

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 2715

ALPHA ( 5 ) = 11.930 BETA ( 2 ) = .189

(XEBL64)

AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING BOT

SECTION ( 1 ) LEFT WING BOT SURF

DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CH

.400							
.402							
.503		.3750		.3580	.3592	.2439	
.550							
.565				.2544	.2295		-.0209
.600							
.637							
.650	.2507					.0595	
.670							
.700					.1037		
.725				.0344			-.4300
.750							
.760							
.775		.0079					
.798							
.808							
.834							
.839							
.850							
.857							
.862							
.865							
.879							
.900							
.905							
.919							
.950							
.953							
.955							
.965							
1.000							

-.4816

ALPHA ( 5 ) = 11.925 BETA ( 3 ) = .4249 MACH = 1.0980

P

.710.72

RN/L = 3.1951

SECTION ( 1 ) LEFT WING BOT SURF

DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CH

.010							
.020							
.040							
.050							
.052							
.080							



DATE 10 FEB 75

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 2717

AME'S 11-073(0A148) -140A/B/C/R ORB LEFT WING BOT (XEBL65) ( 05 AUG 75 )

## REFERENCE DATA

SREF = 2600.0000 SQ.FT. XMRP = 1076.6800 IN. XQ  
 L-CLF = 474.8000 IN. YMRP = .0000 IN. YO  
 R-CLF = 936.0000 IN. ZMRP = 375.0000 IN. ZO  
 SCALE = .0300

## PARAMETRIC DATA

RUDDER = 5.000 SPDBRK = 55.000  
 BDFLAP = 16.300 L-ELVN = -4.000  
 R-ELVN = -4.000 MACH = .900

ALPHA ( 1 ) = -3.965 BETA ( 1 ) = -3.837 MACH = .90037 Q = 600.12 P = 1057.6 RN/L = 3.5768

## SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.010	-.1306	-.2878	-.4892	-1.0812	-1.2516	-1.0216	-1.0373
.020	.0000	-.2533	-.5333	-1.2574	-1.3110	-1.3264	-1.3430
.040	-.2264	-.6613	-.6613	-1.1563	-1.3105	-1.3623	-1.3721
.050	-.1255			-1.1563	-1.3105	-1.3623	-1.3721
.069				-1.0636			-1.2315
.080							
.081							
.086							
.094							
.150							
.157							
.163							
.177							
.229							
.246							
.250							
.274							
.345							
.390							
.400							
.402							
.403							
.550							
.565							
.600							
.637							
.650							
.670							
.700							
.725							
.750							
.760							
.775							
.793							
.803							
.834							
.839							
.850							

-.3237  
 -.6666  
 -.4026  
 -.5379  
 -.3976

-.6143  
 -.6580  
 -.5717  
 -.2001  
 -.5750  
 -.6420  
 -.6135  
 -.7338  
 -.3976



DATE 10 FEB 76 TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

(XE8L65)

AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING BOT

ALPHA ( 1 ) = -3.963 BETA ( 2 ) = .195

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW							
.637	-.2922						
.650				-.2958			-.4926
.670							
.700				-.2925			
.725							
.750				-.3343			
.760							
.775							
.798				-.2750			
.809							
.834				-.7218			
.849							
.857				-.3475			
.862							
.865				-.5885			
.879							
.900				-.3655			
.905							
.919				-.5936			
.950							
.953				-.4047			
.955							
.955				-.4141			
1.000							

ALPHA ( 1 ) = -3.957 BETA ( 3 ) = 4.274 MACH = .9037 Q = 600.12 P = 1057.6 RV/L = 3.5768

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW							
.010							
.020							
.040							
.050							
.059							
.060							
.061							
.066							
.074							
.080							
.087							
.163							

(59783X)

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT

$$\text{ALPHA} (1) = -3.957 \quad \text{BETA} (3) = 4.274$$

SECTION ( 1' LEFT WING BOT SURF

2Y/FW	.2370	.3640	.4270	.5340	.6730	.7800	.8870	.9720
-------	-------	-------	-------	-------	-------	-------	-------	-------

**MJ/X**

[illegible]

TABULATED PRESSURE DATA - 0A149 ( AMES 11-073-1 )

(XEBL65)  
RV/L = 3.5759

AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING BOT

P = 599.62 Q = 1057.3

ALPHA ( 2 ) = .052 BETA ( 1 ) = -3.869 MACH = .90007

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BA .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CA

.010 .0400 .0861 .0873 .6719 -.8390 -.7707 -.6427  
.020 .0000 .0698 -.0105 -.6386 -.7814 -.7818 -.9426  
.040 .0000 .0766 -.1777 -.5378 -.6109 -.6973 -.8013  
.050 .0031 -.3625  
.069 .081  
.080 .081  
.088 .0911  
.094 .0197  
.150 .0197  
.157 .0197  
.163 .0197  
.177 .0197  
.229 .0197  
.246 .0197  
.250 .0197  
.274 .0197  
.345 .0197  
.390 .0197  
.400 .0197  
.402 .0197  
.503 .0197  
.550 .0197  
.565 .0197  
.600 .0197  
.637 .0197  
.650 .0197  
.670 .0197  
.700 .0197  
.725 .0197  
.750 .0197  
.760 .0197  
.775 .0197  
.793 .0197  
.809 .0197  
.834 .0197  
.839 .0197  
.850 .0197  
.857 .0197  
.862 .0197  
.865 .0197  
.873 .0197  
.900 .0197  
.915 .0197  
.919 .0197

-.0108  
-.0282  
-.1367  
-.1318  
-.1093  
-.0927  
-.8417  
-.1991  
-.2870  
-.2116  
-.2545  
-.3039  
-.6542  
-.3742  
-.2260

-.2219  
-.1590  
-.1313  
-.2044  
-.1399  
-.2044  
-.3236  
-.2780  
-.6425  
-.3955  
-.3834  
-.3519  
-.3445  
-.3185

-.2262  
-.2030  
-.2405  
-.2168  
-.1936  
-.2908  
-.5642  
-.7651  
-.6159  
-.5190  
-.3746  
-.2057

-.2624  
-.2405  
-.2168  
-.3236  
-.2780  
-.6425  
-.3955  
-.3834  
-.3519  
-.3445  
-.3185

-.2624  
-.2405  
-.2168  
-.3236  
-.2780  
-.6425  
-.3955  
-.3834  
-.3519  
-.3445  
-.3185

-.2624  
-.2405  
-.2168  
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-.2780  
-.6425  
-.3955  
-.3834  
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-.3185

-.2624  
-.2405  
-.2168  
-.3236  
-.2780  
-.6425  
-.3955  
-.3834  
-.3519  
-.3445  
-.3185

-.2624  
-.2405  
-.2168  
-.3236  
-.2780  
-.6425  
-.3955  
-.3834  
-.3519  
-.3445  
-.3185





DATE 10 FEB 76  
TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )  
AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING BOT

$$A_{\text{beta}}(2) = .054 \quad \text{BETA}(2) = .179$$

SECTION	1	LEFT	WING	BOT	SURF	DEPENDENT VARIABLE CP
1	1	1	1	1	1	1
2	1	1	1	1	1	1
3	1	1	1	1	1	1
4	1	1	1	1	1	1
5	1	1	1	1	1	1
6	1	1	1	1	1	1
7	1	1	1	1	1	1
8	1	1	1	1	1	1
9	1	1	1	1	1	1
10	1	1	1	1	1	1
11	1	1	1	1	1	1
12	1	1	1	1	1	1
13	1	1	1	1	1	1
14	1	1	1	1	1	1
15	1	1	1	1	1	1
16	1	1	1	1	1	1
17	1	1	1	1	1	1
18	1	1	1	1	1	1
19	1	1	1	1	1	1
20	1	1	1	1	1	1
21	1	1	1	1	1	1
22	1	1	1	1	1	1
23	1	1	1	1	1	1
24	1	1	1	1	1	1
25	1	1	1	1	1	1
26	1	1	1	1	1	1
27	1	1	1	1	1	1
28	1	1	1	1	1	1
29	1	1	1	1	1	1
30	1	1	1	1	1	1
31	1	1	1	1	1	1
32	1	1	1	1	1	1
33	1	1	1	1	1	1
34	1	1	1	1	1	1
35	1	1	1	1	1	1
36	1	1	1	1	1	1
37	1	1	1	1	1	1
38	1	1	1	1	1	1
39	1	1	1	1	1	1
40	1	1	1	1	1	1
41	1	1	1	1	1	1
42	1	1	1	1	1	1
43	1	1	1	1	1	1
44	1	1	1	1	1	1
45	1	1	1	1	1	1
46	1	1	1	1	1	1
47	1	1	1	1	1	1
48	1	1	1	1	1	1
49	1	1	1	1	1	1
50	1	1	1	1	1	1
51	1	1	1	1	1	1
52	1	1	1	1	1	1
53	1	1	1	1	1	1
54	1	1	1	1	1	1
55	1	1	1	1	1	1
56	1	1	1	1	1	1
57	1	1	1	1	1	1
58	1	1	1	1	1	1
59	1	1	1	1	1	1
60	1	1	1	1	1	1
61	1	1	1	1	1	1
62	1	1	1	1	1	1
63	1	1	1	1	1	1
64	1	1	1	1	1	1
65	1	1	1	1	1	1
66	1	1	1	1	1	1
67	1	1	1	1	1	1
68	1	1	1	1	1	1
69	1	1	1	1	1	1
70	1	1	1	1	1	1
71	1	1	1	1		

2Y/8W	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
-------	-------	-------	-------	-------	-------	-------	-------	-------

X/CW

-.6512    -.6258

86  
-2718

809

334 3047 607E

5/20/89 -

0.57  
0.57  
- .3620

1538

0199' -

003 - 14118  
- .35569

9114-	-3189
915	-3189

319  
-2411  
-3169

0.950

-.2784

1893

1991 - 1991

9891.- 6371

$$\rho_{\mu\Delta}(2) = .050 \quad \text{BETA} (3)$$

1000

SECTION: ( ) LEFT WING BOT SURF

134	.2990	.3640	.4270	.5340	.6730	.7800	.8870
-----	-------	-------	-------	-------	-------	-------	-------

[illegible]

2.

○ ○  
↑ ↓  
○ ○  
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[illegible]

100

60

10

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 ۱۰۲  
 ۱۰۳

17 11  
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177.

• 69  
• 10  
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• 10

41  
42

6

13

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•  
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(XEBL65)

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT

TABULATED PRESSURE DATA - OA148 ( AMES 11-073-1 )

DATE 10 FEB 75

ALPHA ( 3 ) = 4.021 BETA ( 1 ) = -3.873

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.091	.0617						
.086	.2260						
.094							
.150							
.157							
.153	.1941						
.177	.0225						
.0961							
.229	.0332						
.246							
.250							
.274	.0194						
.345							
.390	.0239						
.400							
.402	.0175						
.503							
.550							
.555							
.600							
.637							
.650							
.670							
.700							
.725							
.750							
.760							
.775							
.799							
.808							
.834							
.839							
.850							
.857							
.862							
.865							
.879							
.900							
.906							
.909							
.920							
.929							
.936							
.955							
.960							
.965							
.966							
.969							
.970							
.971							
.972							
.973							
.974							
.975							
.976							
.977							
.978							
.979							
.980							
.981							
.982							
.983							
.984							
.985							
.986							
.987							
.988							
.989							
.990							
.991							
.992							
.993							
.994							
.995							
.996							
.997							
.998							
.999							
1.000							







DATE 10 FEB 76

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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(XEBL65)

AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING BOT

ALPHA ( 4 ) = 7.876 BETA ( 1 ) = -3.866

SECTION ( 1 ) LEFT WING BOT SURF

DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW	.400							
	.402		.1129	.0802	.0589		-.0355	
	.503							-.2530
	.550		-.6347	-.0402	-.0659			
	.565							
	.600							-.2350
	.637							
	.650		-.0410					
	.670					-.2058		-.6035
	.700							
	.725					-.2260		
	.750							
	.760					-.6369		-.6933
	.775							
	.798							
	.808							
	.834							
	.839							
	.850							
	.857							
	.862							
	.865							
	.879							
	.900							
	.905							
	.919							
	.950							
	.953							
	.955							
	.965							
	1.000							

X/CW

ALPHA ( 4 ) = 7.884 BETA ( 2 ) = .183 MACH = .89873 Q = 598.61 P = 1058.8 RN/L = 3.5708

SECTION ( 1 ) LEFT WING BOT SURF

DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
Y/CW	.010							
	.020							
	.040							
	.050							
	.059							
	.080							

Y/CW



DATE 10 FEB 76

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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(XEBL65)

ALPHA ( 4 ) = 7.884    BE<sub>1</sub> ( 2 ) = .183

AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING BOT

SECTION ( 1 ) LEFT WING BOT SURF	DEPENDENT VARIABLE CP			
2Y/BW	.2990	.3640	.4270	.5340
X/CW	.081	.2646	.1739	.1215
.086	.2209	.1723	.1661	.0717
.094	.0283			
.150				
.157				
.163	.3099			
.177	.1243	.1882		
.229				
.246	.1757			
.250				
.274				
.345	.1442	.1375	.1215	.0896
.390				.0030
.400				
.402		.0760	.0616	
.503	.1090			
.550				
.565				
.630				
.637				
.650				
.670				
.700				
.725				
.750				
.775				
.798				
.808				
.834				
.839				
.850				
.857				
.852				
.855				
.879				
.910				
.919				
.950				
.953				
.955				
.965				
1.000				

-.3002

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT

**RN/L - 3,5708**

SECTION ( 1 LEFT WING BOT SURF

DEPENDENT VARIABLE CP

SECTION ( LEFT WING BOT SURF

2Y/8W	.2990	.3646	.4270	.5340	.6730	.7800	.8870	.9720
-------	-------	-------	-------	-------	-------	-------	-------	-------

**MJ/X**

010	- 5283	- 3409	. 1080	. 4466	. 3932	. 4038	. 3477	- 4979
030	0000	- 1657	2666	7776	3554	3441	2964	- 4979

:0000	- :1037	:2003	:3773	:3334	:6304
.040	- .0868	.3156			

.050	- .1220	.2868	.2553	.2420	.2078
.050					.2077

0.003	.2279
0.080	

	180°	.2511
1152'		

07411	4150	8620
07411	4150	8620

.150	.1720	.1743	.1532	.0599
------	-------	-------	-------	-------

.157	2770	-.2391
.163		

1.177	.1856
1.137	
1.070	

5.229	4060
2.115	1607

.273	.1294	.1068	.0807	-.0137
.250				

274	.1450	3666
-----	-------	------

4821  
562  
E4C  
00C31

	0619	.0479	- .0735
.400			
.400			

1.402	.0971	
1.503		-.2876

-.0507    -.0936

565	- .6745	- .2707
500		

-.0453

650  
 670  
 - 2207  
 - 5830

-.2186

- .725  
- .768

- .1844

- 6908 - 6703

.760	- .1943	
.760		- .0898 - .033%

.775	- .7246	- .6283
.700		

1998 - .2127  
1999 - .7115

15231  
634

839  
850  
861  
-5674 -5259 -8059

158  
-6541

[illegible]

2895 - 5582

303	- .4443	- .3138	- .9015
305		- .7780	

1. 3414  
 2. 3414  
 3. 3414

DATE 10 FEB 76

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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(XEBL65)

AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING BOT

ALPHA ( 4 ) = 7.882 BETA ( 3 ) = 4.244

SECTION ( 1 ) LEFT WING BOT SURF

DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CM

.950 -.2248 -.3337 -.4855

.953 -.1841

.955 -.1721

.965 -.2785

1.000 -.0832

-.1929

-.3723

ALPHA ( 5 ) = 11.907 BETA ( 1 ) = -3.854 MACH = .89780 Q = 598.05 P = 1060.0 RN/L = 3.5707

SECTION ( 1 ) LEFT WING BOT SURF

DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CM

.010 -.4642 -.5046 .2145 .6273 .6020 .5873 .5305

.020 .0000 -.1374 .4200 .5677 .5623 .5635 .5039

.040 -.0301 .4824 .4661 .4574 .4488 .4122

.050 -.0117

.052

.060 .3978

.081 .4063

.085 .2785

.094

.150

.157

.163

.177

.229 .3179

.246

.250

.274

.345

.392

.400

.402

.523

.550

.585

.620

.637

.650

.670

.700

.725

.733

.760

-.1612

-.1809

-.1232

-.1996

-.5866

-.5939

-.5827

-.2063

DATE 10 FEB 76

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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(XEBL65)

ALPHA ( 5 ) = 11.907 BETA ( 1 ) = -3.854  
 AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING BOT

SECTION ( 1 ) LEFT WING BOT SURF	DEPENDENT VARIABLE CP
2Y/BW	.2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720
X/CW	
.775	-.6593 -.6526
.798	
.808	-.1929
.834	-.6489
.839	-.2259
.850	-.6518
.857	
.862	-.8082 -.6125 -.7695
.865	-.6940
.879	
.900	-.6306
.905	-.5711
.919	-.4090
.950	-.5356
.953	-.6322
.955	-.8140
.965	-.2839 -.6374 -.8419
1.000	-.2771
	-.2358
	-.2791
	-.1691
	-.3627
	-.4885

ALPHA ( 5 ) = 11.920 BETA ( 2 ) = .190 MACH = .69780 Q = 598.05 P = 1060.0 RW/L = 3.5707

SECTION ( 1 ) LEFT WING BOT SURF	DEPENDENT VARIABLE CP
2Y/BW	.2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720
X/CW	
.010	-.6924
.020	-.4142
.040	.0015
.050	.5432
.069	.5231
.080	.5095
.086	.4942
.094	.4778
.150	.4203
.157	.4280
.163	-.5030
.177	.4446
.229	.4379
.246	.4111
.250	.3630
.274	-.3481
.345	
.330	-.3481
	.3813
	.3749
	.1901
	.3078
	.3163
	.3007
	.2051
	-.2337
	.3065
	.2726
	.246
	.250
	.274
	.345
	.330
	.2409
	.2560
	.2460
	.2347
	.2096
	.1178
	-.1981

DATE 10 FEB 76 TABULATED PRESSURE DATA - QAI48 ( AMES 11-073-1 )  
 AMES 11-073(QAI48) -140A/B/C/R ORB LEFT WING BOT

(XEBL65)

SECTION 1	11.920	BETA ( 2 )	.190	DEPENDENT VARIABLE CP
2-3	.2990	.3640	.4270	.5340 .6730 .7800 .8870 .9720
				.1625 .1518 .0257
				.1961
				.0376 .0056
				-.5955
				-.1974
				.0352
				-.1650
				-.5933
				-.2019
				-.1990
				-.6239 -.6053
				-.2240
				-.6578 -.6831
				-.2099
				-.6609
				-.2269
				-.6325
				-.8095 -.6297 -.8016
				-.6559
				-.6230
				-.5563
				-.4138
				-.7258
				-.7149
				-.6046
				-.3364 -.5855 -.8376
				-.3036
				-.2801
				-.4091
				-.1435
				-.3249
				-.5092
SECTION 2	11.907	BETA ( 3 )	4.258	MACH = .89780 0 = 598.05 P = 1060.0 RN/L = 3.5707
2-3	.2990	.3640	.4270	.5340 .6730 .7800 .8870 .9720
				.4367 .4220 .3476 .3005
				.0300 -.3178 .0914 .4550 .4419 .4170 .3495
				-.2267 .3151
				-.4032 .3956 .3619 .3150
				-.2120
				.3530
				-.4761

DATE 10 FEB 76 TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

(XEBL65)

AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING BOT

ALPHA ( 5 ) = 11.907 BETA ( 3 ) = 4.258

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

24/24	.2930	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW	.081	.086	.091	.0991	.3263			
	-.0717				.2812	.2861	.2701	.1590
		.3075						-.3017
	.0992		.2833					
		.2366			.2197	.2075	.1852	.0838
			.2329					-.2691
		.2226			.1379	.1286		-.0090
			.1716		.0168	-.0122		-.3206
			-.6274				-.2317	
		.0211				-.1796		-.6606
				-.2333	-.2087		-.6580	-.6259
			-.2585		-.6452	-.7101		
		-.2559		-.6569				
	-.2483		-.6181		-.7952	-.6854	-.8136	-.6651
			-.6089					
		-.6252		-.5528				
		-.4443		-.8568				-.8896
			-.7058					
		-.6033			-.3325	-.5868	-.8620	
			-.3227					
	-.5027		-.3734					
			-.1533		-.2752			-.5291

DATE 10 FEB 76

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING BOT

(XEBL66) ( 05 AUG 75 )

REFERENCE DATA

SREF = 2000.000 SQ.FT. XMRP = 1076.6800 IN. XO  
REF = 1076.6800 IN. YMRP = .0000 IN. YO  
SREF = 935.0000 IN. ZMRP = 375.0000 IN. ZO  
SCALE = .0300

ALPHA ( ) = -.037 BETA ( ) = -7.846 MACH = .59482 Q = 591.26 P = 2387.4 RN/L = 4.8005

PARAMETRIC DATA

RUDDER = 5.000 SPDBRK = 55.000  
BDFLAP = 16.300 L-ELVN = -4.000  
R-ELVN = -4.000 MACH = .600

SECTION 1 LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/B	2930	3540	4270	5340	6730	7800	8870	9720
Y/C								
210								
220								
230								
240								
250								
260								
270								
280								
290								
300								
310								
320								
330								
340								
350								
360								
370								
380								
390								
400								
410								
420								
430								
440								
450								
460								
470								
480								
490								
500								
510								
520								
530								
540								
550								
560								
570								
580								
590								
600								
610								
620								
630								
640								
650								
660								
670								
680								
690								
700								
710								
720								
730								
740								
750								
760								
770								
780								
790								
800								
810								
820								
830								
840								
850								
860								
870								
880								
890								
900								
910								
920								
930								
940								
950								
960								
970								
980								
990								
1000								

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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(XEBL66)

AMES 11-073(0A148) -140A/B/C/R ORØ LEFT WING BOT

ALPHA ( 1 ) = -4.037 BETA ( 1 ) = -7.846

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/8W .2930 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW  
.957  
.862  
.865  
.879  
.900  
.905  
.919  
.950  
.953  
.955  
.965  
1.000- .3823  
- .2720  
- .2138  
- .1795  
- .1668  
- .0986  
- .3301  
- .0844- .2949  
- .2162  
- .1795  
- .0706  
- .0782  
- .0562  
- .0275- .4224  
- .2122  
- .0844  
- .0706  
- .0782  
- .0562  
- .0275

ALPHA ( 1 ) = -3.899 BETA ( 2 ) = -3.843 MACH = .59482 Q = 591.26 P = 2397.4 RN/L = 4.8005

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/8W .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW  
.010  
.020  
.040  
.050  
.069  
.080  
.081  
.086  
.094  
.150  
.157  
.163  
.177  
.223  
.246  
.261  
.274  
.345  
.370  
.400  
.422  
.427  
.500  
.505  
.515- .1970  
- .0000  
- .3885  
- .3552  
- .1747  
- .4599  
- .8500  
- .9214  
- .18891  
- .7547  
- .9062  
- .9959  
- .11494  
- .11389  
- .8896- .2457  
- .1637  
- .3005  
- .3359  
- .2771  
- .3071  
- .3571  
- .4006  
- .4059  
- .3965  
- .3099  
- .4049  
- .2645  
- .2840  
- .1767  
- .3522- .4344  
- .4842  
- .5584  
- .5795  
- .3352- .3583  
- .1305  
- .2391  
- .2391  
- .2060  
- .2392  
- .2572  
- .2645  
- .2840  
- .1767  
- .3522



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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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(XEBL68)

AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING BOT

ALPHA ( 1 ) = -3.899 BETA ( 2 ) = -3.843

SECTION ( 1 ) LEFT WING BOT SURF

DEPENDENT VARIABLE CP

2Y/8W .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.637	-.2448						
.650				-.3359			-.5033
.670							
.700				-.3369			
.725				-.3002			
.750							
.760							
.775							
.798							
.829							
.834							
.839							
.850							
.857							
.862							
.865							
.873							
.900							
.905							
.919							
.930							
.933							
.955							
.965							
1.000							

ALPHA ( 1 ) = -3.894 BETA ( 3 ) = .194 MACH = .59482 Q = 591.26 P = 2387.4 RN/L = 4.8085

SECTION ( 1 ) LEFT WING BOT SURF

DEPENDENT VARIABLE CP

2Y/8W .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.010	-.1039	-.2460	-.5846	-1.8513	-2.0316	-1.9934	-1.8301
.020	.0000	-.2098	-.6454	-1.4113	-1.6457	-1.5439	-1.7010
.040		-.2027	-.5975				
.050	-.1036						
.069							
.080							
.081							
.085							
.094							
.150							
.157							
.153							

(99-183X)

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )  
AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING BOT

$$A(2,4,1) = -3.894 \quad BETA(3) = .194$$

section: / LEFT WING BOT SURF

2Y/2H	.2990	.3540	.4270	.5340	.6730	.7800	.8870	.9720
-------	-------	-------	-------	-------	-------	-------	-------	-------

**X/CW**

1.77	-.0789	-.3171			
229	-.2852		-.2845	-.3337	-.3675
246		-.2501			
250					
274					
345					
390	-.2193		-.2272	-.2506	-.2853
400		-.1941			
402			-.2502	-.2733	
503					
550		-.1726			-.3261
555					
600	-.2360			-.3230	
637					
650					
670			-.2949	-.3266	
700					
725			-.7231	-.4385	-.4902
750		-.2898			
760					
775					
799	-.3162	-.5870			
808					
834	-.2652				
839					
850		-.3984	-.3402	-.3188	-.2852
857					
952		-.3176			
965	-.4286				
979	-.2919		-.2109		-.1945
992	-.2729				
995		-.2032			
999	-.2004		-.0994	-.2378	-.0831
999		-.0938			
999	-.1104				
999	-.1470				
999		-.0051		-.0112	-.0060

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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(XEBL65)

AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING BOT

RN/L = 4.8005

P

Q = 591.26

MACH = .59482

ALPHA ( 1 ) = -3.902

BETA ( 4 ) =

SECTION ( 1 ) LEFT WING BOT SURF

DEPENDENT VARIABLE CP

24954 .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.010	-.0471	-.1080	-.3742	-1.4846	-1.6658	-2.1145	-1.9619
.020	.0000	-.0916	-.4260	-1.1766	-1.3362	-1.4843	-1.7829
.040	-.0795	-.4403					-.7190
.050	-.0570						
.069							-.5363
.080							
.081							
.085							
.094	-.0596	-.0584	-.3582				
.150							
.157							
.163							
.177							
.229	-.0436						
.246							
.250							
.274							
.345							
.390							
.400							
.402							
.503							
.550							
.555							
.600							
.637							
.650							
.670							
.700							
.725							
.750							
.775							
.798							
.808							
.834							
.839							
.850							
.857							
.862							
.865							
.879							
.900							
.905							
.919							

-.3020

-.3238

-.3081

-.4395

-.3544

-.1670

-.2004

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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(XEBL58)

ALPHA ( 1 ) = -3.902 BETA ( 4 ) = 4.271  
AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING BOT

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.950  
.953  
.955  
.965  
1.000

-.0824 -.1805 -.0776

-.1124

-.0904

-.0107 -.0013 -.0026

ALPHA ( 1 ) = -3.917 BETA ( 5 ) = 8.333 MACH = .59482 Q = 591.26 P = 2387.4 RW/L = 4.8005

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.010  
.020  
.040  
.050  
.069  
.080  
.081  
.086  
.094  
.150  
.157  
.163  
.177

-.0192 .0080  
.0000 .0040  
.0191 .0279  
-.0301  
-.1531 -1.1015 -1.3693 -1.7896 -1.7308  
-.2076 -.9045 -1.0361 -1.1999 -1.5241  
-.2790  
-.5333 -.6455 -.7732 -.8052  
-.4226  
-.2657

-.4309

-.0308 .0146

-.2909 -.3366 -.3706 -.3972

-.2425

-.0599

-.2162

-.0206 -.1746

-.2228 -.2720 -.2935 -.2995

-.1628

-.1891

-.1913 -.2077

-.2288 -.2463

-.2000

-.2115

-.2897

-.3029

-.2843

-.5005 -.4447

-.2804

-.2511

-.2316

-.2893

-.2845

-.3428



DATE 10 FEB 76 TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

(XEBL66)

AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING BOT

ALPHA ( 2 ) = .066 BETA ( 1 ) = -7.886

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CM

.400 .1221 -.1524 -.1620 -.1983

.402 .1221 -.1524 -.1620 -.1983

.503 .1221 -.1524 -.1620 -.1983

.550 .1221 -.1524 -.1620 -.1983

.565 .1221 -.1524 -.1620 -.1983

.600 .1221 -.1524 -.1620 -.1983

.637 .1221 -.1524 -.1620 -.1983

.650 .1221 -.1524 -.1620 -.1983

.670 .1221 -.1524 -.1620 -.1983

.700 .1221 -.1524 -.1620 -.1983

.725 .1221 -.1524 -.1620 -.1983

.750 .1221 -.1524 -.1620 -.1983

.760 .1221 -.1524 -.1620 -.1983

.775 .1221 -.1524 -.1620 -.1983

.798 .1221 -.1524 -.1620 -.1983

.839 .1221 -.1524 -.1620 -.1983

.834 .1221 -.1524 -.1620 -.1983

.839 .1221 -.1524 -.1620 -.1983

.850 .1221 -.1524 -.1620 -.1983

.857 .1221 -.1524 -.1620 -.1983

.862 .1221 -.1524 -.1620 -.1983

.879 .1221 -.1524 -.1620 -.1983

.900 .1221 -.1524 -.1620 -.1983

.905 .1221 -.1524 -.1620 -.1983

.919 .1221 -.1524 -.1620 -.1983

.950 .1221 -.1524 -.1620 -.1983

.953 .1221 -.1524 -.1620 -.1983

.955 .1221 -.1524 -.1620 -.1983

.965 .1221 -.1524 -.1620 -.1983

1.000 .1221 -.1524 -.1620 -.1983

ALPHA ( 2 ) = .075 BETA ( 2 ) = -3.862 MACH = .59550 Q = 592.43 P = 2386.4 RN/L = 4.8075

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CM

.010 .0237 -.0520 -.0775 -.0873 -.0873 -.0873 -.0873

.020 .0000 -.0012 -.0110 -.0110 -.0110 -.0110 -.0110

.040 .0000 -.0012 -.0110 -.0110 -.0110 -.0110 -.0110

.050 .0000 -.0012 -.0110 -.0110 -.0110 -.0110 -.0110

.059 .0000 -.0012 -.0110 -.0110 -.0110 -.0110 -.0110

.080 .0000 -.0012 -.0110 -.0110 -.0110 -.0110 -.0110

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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(XEBL66)

AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING BOT

ALPHA ( 2 ) = .075 BETA ( 2 ) = -3.862

SECTION ( 1 ) LEFT WING BOT SURF	DEPENDENT VARIABLE CP		
2Y/8W	.2990	.3640	.4270
X/CH	.5346	.6730	.7800
	.8870	.9720	
.081	-.2450		
.086	.0144		
.094	-.0315	-.2207	-.2483
.150		-.2446	-.2698
.157			-.1926
.163	-.0738		
.177	-.1855		
.229	-.0258		
.246	-.1615	-.1653	-.1984
.250		-.2092	-.2184
.274		-.1465	
.345	-.1242		
.390		-.1500	-.1588
.400	-.1170		
.402		-.2016	-.2144
.503	-.2258		
.550		-.2777	
.565			-.2616
.600			
.637	-.1923	-.2815	
.650			-.3251
.670		-.2954	
.700		-.2704	
.725		-.5320	-.4680
.750	-.2569		
.760		-.6993	-.4150
.775			
.798	-.2900		
.808	-.5934		
.834	-.2503		
.839	-.3976	-.3339	-.3170
.850		-.2720	
.857	-.3017		
.862			-.1848
.865	-.4111		
.879	-.2726		
.900	-.2365	-.2061	-.1433
.905		-.1836	
.919	-.1807		
.950		-.0751	-.2655
.953		-.0698	
.975	-.0706		
.985	-.0810		
.985	-.0923		
1.000	.0139	-.0112	.0248

DATE 10 FEB 76 TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

ALPHA ( 2 ) = .076 BETA ( 3 ) = .175 MACH = .59560 Q = 592.43 P = 2386.4 RN/L = 4.8073  
(XEBL68)

AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING BOT

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7860	.8870	.9720
X/CH								
.010	.0112	.0637	.0666	-.5799	-.7116	-.7645	-.6934	
.020	.0000	.0529	-.0248	-.5819	-.5648	-.6373	-.7404	-.2429
.040		.0623	-.1600					
.050	-.0064			-.3616	-.3969	-.4548	-.4741	-.2191
.063								
.080				-.2932				
.081		.0618						
.086								
.094	-.0151							
.150				-.1967	-.2174	-.2205	-.2576	-.1939
.157								
.163		-.0143						
.177			-.1326					
.229	-.0041							
.246		-.1274						
.250				-.1473	-.1835	-.2082	-.2120	
.274			-.1267					
.345								-.1914
.390		-.1040		-.1425	-.1483		-.1845	
.400			-.1076					
.402				-.1973	-.2136			-.2480
.503			-.1955					
.550								
.565								
.600								
.647		-.1823						
.650						-.2787		-.3010
.670								
.700				-.2709	-.2957			
.725						-.5206	-.4587	
.750								
.760			-.2662	-.7202	-.4117			
.775								
.798		-.2966						
.808			-.5807					
.834								
.839		-.3993		-.3319	-.3011	-.2764		
.850			-.3088					
.857								-.1455
.852								
.865		-.4179						
.879			-.2855					
.900	-.2630			-.2070				-.1310
.905			-.1964					
.919								



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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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(XEBL66)

AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING BOT

ALPHA ( 2 ) = .076 BETA ( 3 ) = .175

SECTION ( 1 ) LEFT WING BOT SURF

DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.950 -.0762 -.2167 -.0676

.953 -.0786

.955 -.1051

.965 -.1436

1.000 .0128 .0120 .0252

ALPHA ( 2 ) = .073 BETA ( 4 ) = .4250 MACH = .59550 Q = 592.43 P = 2386.4 RN/L = 4.8075

SECTION ( 1 ) LEFT WING BOT SURF

DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.010 -.0278 .0499 .1415 -.4058 -.5312 -.5465 -.5035

.020 .0000 .0563 .0730 -.4159 -.4280 -.4947 -.5539

.040 .0726 -.0655

.050 -.0161 -.2760 -.3140 -.3694 -.3908

.069 .080 -.2379

.080 .081

.086 .0807

.094 -.0151

.150 .094

.157 .157

.163 .0231

.177 .1187

.229 .0077

.246 -.1016

.250 .1058

.274 -.1058

.345 -.0976

.390 -.1297

.400 -.1030

.402 -.1436

.503 .1776

.550 -.1908

.565 -.2075

.600 -.2094

.637 -.1834

.650 -.2638

.670 -.2698

.700 -.2866

.725 -.2733

.750 -.5175

.760 -.4471

.760 -.2649

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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(XEBL66)

ALPHA ( 2 ) = .073 BETA ( 4 ) = 4.250

AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING BOT

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CM

.775							
.798							
.808							
.834							
.839							
.850							
.857							
.862							
.865							
.879							
.900							
.905							
.919							
.940							
.953							
.955							
.965							
1.000							

ALPHA ( 2 ) = .069 BETA ( 5 ) = 8.308 MACH = .59550

0

P

2386.4

RN/L

4.8075

SECTION ( 1 ) LEFT WING BOT SURF

DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CM

.010							
.020							
.040							
.050							
.059							
.080							
.081							
.086							
.094							
.150							
.157							
.153							
.177							
.229							
.246							
.250							
.274							
.745							
.390							



DATE 10 FEB 76      TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )  
 ALPHA ( 3 ) = 4.021    BETA ( 1 ) = -7.899  
 SECTION ( 1 ) LEFT WING BOT SURF      DEPENDENT VARIABLE CP  
 2Y/B4    .2990    .3640    .4270    .5340    .6730    .7800    .8870    .9720

(XEBL66)

X/CH	CP	CP	CP	CP	CP	CP	CP
.081	-.0385						
.086	.1517						
.094	.0483	-.0572	-.0496	-.0407	-.0617		-.1253
.150							
.157	.0746						
.163							
.177	-.0409						
.229							
.246	-.0391						
.250		-.0338	-.0600	-.0682	-.0798		
.274	-.0316						-.1030
.345	-.0285						
.390		-.0603	-.0668		-.1024		
.400	-.0299						-.2030
.402							
.504		-.1372	-.1539				
.550	-.2735				-.2432		
.600							
.637	-.1375			-.2434			-.2822
.650							
.670							
.700		-.2381	-.2699				
.725							
.750				-.5456	-.4574		
.760	-.2306						
.775		-.6808	-.3990				
.798	-.2659						
.809							
.834	-.2257						
.839							
.850	-.3671						
.857		-.3285	-.3142	-.2869			
.862	-.2797						-.1752
.865							
.879	-.2504						
.900		-.2068					-.1753
.905	-.1695						
.919							
.950	-.1548						
.953		-.0674	-.2503	-.0711			
.955	-.0478						
.955	-.0591						
.955							
.955	-.0560						
.955	.0504			.0113			.0513
1.000							





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 AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING BOT

(XEBL66)

ALPHA ( 3 ) = 4.022 BETA ( 3 ) = .186

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BN .2930 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CM  
 .775  
 .798  
 .838  
 .634  
 .839  
 .850  
 .857  
 .862  
 .855  
 .879  
 .900  
 .905  
 .919  
 .953  
 .953  
 .955  
 .965  
 1.000

-.7286 -.3996  
 -.2757 -.5640  
 -.2329 -.3844  
 -.3254 -.2890 -.3011  
 -.3116  
 -.2797  
 -.2440  
 -.1924  
 -.0773  
 -.0300 .0500 .0563  
 -.2032  
 -.1966  
 -.0711 -.1859 -.0647  
 -.1022  
 -.1577  
 -.1453

ALPHA ( 3 ) = 4.025 BETA ( 4 ) = 4.244 MACH = .59494 Q = 591.36 P = 2386.7 RV/L = 4.6849

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BN .2930 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CM  
 .010  
 .020  
 .040  
 .050  
 .049  
 .080  
 .081  
 .085  
 .094  
 .150  
 .157  
 .163  
 .177  
 .223  
 .246  
 .250  
 .272  
 .345  
 .390

-.2110 -.2090 .2334 .1850 .1358 .2096 .1963  
 .0000 -.0618 .2551 .0849 .0882 .0925 .0889  
 -.0039 .1614 .0344 .0092 .0105 .0016  
 .0053  
 .0650  
 .1181  
 .1383 .0145  
 .0272 .0100  
 -.0087  
 -.0044  
 -.1942

-.0063 -.0089 -.0163 -.0655  
 -.1967









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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 2758

AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING BOT

(XEBL66)

ALPHA ( 4 ) = 7.869 BETA ( 1 ) = -7.888

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BA .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.950  
.953  
.955  
.965  
1.000  
-0.0575 -0.2205 -0.0692  
-0.0495  
-0.0540  
0.0613 0.0520 0.0243

ALPHA ( 4 ) = 7.986 BETA ( 2 ) = -3.859 MACH = .59424 Q = 580.08 P = 2387.2 RN/L = 4.7971

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BA .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.010  
.020  
.040  
.050  
.069  
.080  
.081  
.086  
.094  
.150  
.157  
.163  
.177  
.229  
.246  
.250  
.274  
.345  
.390  
.400  
.432  
.503  
.550  
.555  
.600  
.637  
.650  
.670  
.700  
.725  
.750  
.750  
-0.1640 -0.2794 .2957 .4529 .4440 .4386 .4650  
0.0000 -0.0239 .3795 .3361 .3789 .3992 .3930 -0.3498  
0.0523 .3129 .2309 .2513 .2668 .2628 -0.2318  
0.2125 .2028  
0.0610  
0.1290  
0.1211  
0.0961  
0.0860  
0.1019 .0892 .0797 .0373  
0.0393 .0285 -0.0379  
-0.0632 -0.0855  
-0.2709  
-0.0692  
-0.1975  
-0.2214  
-0.2009  
-0.2151  
-0.3002  
-0.4905 -0.4318  
-0.2060

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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(XEBL68)

AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING BOT

ALPHA ( 4 ) = 7.986 BETA ( 2 ) = -3.859

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BA .2990 .3840 .4270 .5340 .6730 .7800 .8870 .9720

X/CH

.775							
.798							
.808							
.834							
.839							
.850							
.857							
.862							
.865							
.879							
.900							
.905							
.919							
.950							
.953							
.955							
.965							
1.000							

ALPHA ( 4 ) = 7.991 BETA ( 3 ) =

.178 MACH = .59424

Q

P

= 2387.2

RN/L

= 4.7971

SECTION ( 1 ) LEFT WING BOT SURF

DEPENDENT VARIABLE CP

2Y/BA .2990 .3640 .4278 .5340 .6730 .7800 .8870 .9720

X/CH

.010							
.020							
.040							
.050							
.069							
.080							
.081							
.086							
.094							
.150							
.157							
.163							
.177							
.229							
.246							
.250							
.274							
.345							
.390							

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 2758

(XEBL66)

AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING BOT

ALPHA ( 4 ) = 7.991 BETA ( 3 ) = .178

SECTION ( 1 ) LEFT WING BOT SURF

DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CH

.400 .0570 .0352 .0201 -.0507

.402 .0570 .0352 .0201 -.0507

.503 .0570 .0352 .0201 -.0507

.550 .0570 .0352 .0201 -.0507

.565 .0570 .0352 .0201 -.0507

.600 .0570 .0352 .0201 -.0507

.637 .0570 .0352 .0201 -.0507

.650 .0570 .0352 .0201 -.0507

.670 .0570 .0352 .0201 -.0507

.700 .0570 .0352 .0201 -.0507

.725 .0570 .0352 .0201 -.0507

.750 .0570 .0352 .0201 -.0507

.760 .0570 .0352 .0201 -.0507

.775 .0570 .0352 .0201 -.0507

.798 .0570 .0352 .0201 -.0507

.808 .0570 .0352 .0201 -.0507

.834 .0570 .0352 .0201 -.0507

.839 .0570 .0352 .0201 -.0507

.850 .0570 .0352 .0201 -.0507

.857 .0570 .0352 .0201 -.0507

.862 .0570 .0352 .0201 -.0507

.885 .0570 .0352 .0201 -.0507

.879 .0570 .0352 .0201 -.0507

.900 .0570 .0352 .0201 -.0507

.905 .0570 .0352 .0201 -.0507

.919 .0570 .0352 .0201 -.0507

.950 .0570 .0352 .0201 -.0507

.953 .0570 .0352 .0201 -.0507

.955 .0570 .0352 .0201 -.0507

.955 .0570 .0352 .0201 -.0507

1.000 .0570 .0352 .0201 -.0507

-.2325

-.2042

-.3471

-.2874

-.3011

-.2712

-.3081

-.2042

-.2200

-.4873

-.4479

-.6863

-.3436

-.2052

-.2230

-.3304

ALPHA ( 4 ) = 7.992 BETA ( 4 ) = 4.237 MACH = .59424 Q = 590.06 P = 2387.2 RW/L = 4.7971

SECTION ( 1 ) LEFT WING BOT SURF

DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CH

.010 .0419 .3787 .3638 .3456 .2914

.020 .0419 .3787 .3638 .3456 .2914

.040 .0419 .3787 .3638 .3456 .2914

.050 .0419 .3787 .3638 .3456 .2914

.069 .0419 .3787 .3638 .3456 .2914

.080 .0419 .3787 .3638 .3456 .2914

-.7892

-.5392

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 2758

(XEBL66)

ALPHA ( 4 ) = 7.992 BETA ( 4 ) = 4.237 AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING BOT

SECTION ( 1 ) LEFT WING BOT SURF	DEPENDENT VARIABLE CP			
2Y/8W	.2990	.3540	.4270	.5340 .6730 .7800 .8870 .9720
X/CW				
.081			.1927	
.086		.0698		
.094	-.0622			
.150		.1224	.1389	.1423 .0584
.157				
.163		.2079		
.177			.1311	
.229	.0410			
.246		.1089		
.250			.0870	.0760 .0616 -.0011
.274			.0891	
.345		.0836		
.390			.0524	
.400			.0232	.0159 -.0726
.402				
.503				
.550				
.565				
.600				
.637				
.650	-.0721			
.670				
.700				
.725				
.750				
.760				
.775				
.790				
.800				
.834				
.839				
.850				
.857				
.862				
.865				
.879				
.900				
.905				
.919				
.930				
.953				
.955				
1.000				

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING BOT

(XEBL66)

ALPHA ( 4 ) = 7.989 BETA ( 5 ) = 8.293 MACH = .59424 Q = 590.06 P = 2387.2 RN/L = 4.7971

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/84	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CH								
.010	-.7482	-.6771	-.2515	.2903	.2819	.2300	.1701	
.020	.0000	-.4191	.0101	.2851	.2856	.2764	.2226	-1.0446
.040		-.3215	.1862					
.050	-.2606			.2249	.2388	.2144	.1746	
.069								-.7139
.080				.1716				
.081			.1712					
.085		-.0099						
.094	-.1413							
.150				.1129	.1267	.1212	.0326	-.3648
.157		.1710						
.163			.1235					
.177	-.0006							
.246		.0873		.0696	.0641	.0498	-.0259	
.250			.0860					-.3533
.274								
.345		.0759						
.390			.0390	.0138	.0038		-.0954	
.402								-.3823
.503				-.0773	-.0949			
.550		-.2873						
.555								
.602								-.2334
.637	-.0718							
.650					-.2114			-.3683
.670								
.700				-.2126	-.2258			
.725						-.4662	-.4505	
.750			-.2221					
.760				-.6756	-.3154			
.775								
.792		-.2416						
.809			-.4601					
.834	-.2183							
.839		-.3501						
.850				-.2897	-.2091	-.3025		-.2266
.857		-.2909						
.862								
.879	-.3947							
.879		-.2736						
.905	-.2523			7.1952			-.1851	
.919		-.2054						
		-.2065						

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 2761

(XEBL66)

ALPHA ( 4 ) = 7.989 BETA ( 5 ) = 8.293

SECTION ( 1 ) LEFT WING BOT SURF

DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

-.0849 -.1145 -.0866

-.0921

-.1230

-.2497

1.000

.0211

.0246

ALPHA ( 5 ) = 12.002 BETA ( 1 ) = -7.846 MACH = .59422 Q = 590.06 P = 2387.2 RN/L = 4.7978

SECTION ( 1 ) LEFT WING BOT SURF

DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.010

.020

.040

.050

.069

.080

.086

.094

.150

.157

.163

.177

.229

.246

.250

.274

.345

.390

.400

.402

.503

.550

.565

.600

.637

.650

.670

.700

.725

.750

.780

-.3039

.0000

.0610

.1187

.1922

.246

.250

.274

.345

.390

.400

.402

.503

.550

.565

.600

.637

.650

.670

.700

.725

.750

.780

-.6237

-.1521

-.0233

.2643

.3619

.2726

.2401

.2162

.1955

.1601

-.3177

.0092

.1496

.3968

.4482

.3634

.2875

.2284

.2162

.1397

.1601

.0210

-.3177

.0092

.5968

.5574

.4400

.3641

.2875

.2284

.2162

.1397

.1601

.0210

-.3177

.0092

.6019

.5863

.4756

.3641

.2875

.2284

.2162

.1397

.1601

.0210

-.3177

.0092

.5325

.5906

.4331

.3241

.2207

.2274

.2162

.1397

.1601

.0210

-.3177

.0092

.4760

.5380

.4622

.2608

.1714

.0675

-.2132

-.1559

-.1277

-.2970

-.4264

-.3662

-.6897

-.3526

-.1904

-.1040

-.2132

-.1559

-.1277

-.2970

-.4264

-.3662

-.1639



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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 2762

(XEBL66)

AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING BOT

ALPHA ( 5 ) = 12.002 BETA ( 1 ) = -7.846

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/B4 .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CM

.775							
.798							
.808							
.834							
.839							
.850							
.857							
.852							
.865							
.879							
.902							
.905							
.919							
.950							
.953							
.955							
.955							
1.000							

ALPHA ( 5 ) = 12.020 BETA ( 2 ) = -3.839 MACH = .59422 Q = 590.06 P = 2387.2 RN/L = 4.7978

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/B4 .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CM

.010							
.020							
.040							
.070							
.080							
.081							
.086							
.094							
.150							
.157							
.163							
.177							
.229							
.246							
.250							
.274							
.345							
.390							

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 2763

(XEBL66)

ALPHA ( 5 ) = 12.020 BETA ( 2 ) = -3.839

AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING BOT

SECTION ( 1 ) LEFT WING BOT SURF

DEPENDENT VARIABLE CP

2Y/8W .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.400  
.402  
.503  
.550  
.565  
.603  
.637  
.650  
.670  
.700  
.725  
.750  
.760  
.775  
.798  
.809  
.834  
.839  
.850  
.857  
.862  
.865  
.879  
.900  
.905  
.919  
.950  
.953  
.955  
.965  
1.000

.1517  
.1308  
.1209  
.0377  
.0102  
-.0063  
-.2748  
-.1771  
.0049  
-.1520  
-.1668  
-.1511  
-.6214  
-.2567  
-.1689  
-.4570  
-.1685  
-.3034  
-.2550  
-.2785  
-.2479  
-.2978  
-.2554

-.3406

-.4430 -.3948

-.2396

-.0736 -.1782 -.1129

-.0692

ALPHA ( 5 ) = 11.983 BETA ( 3 ) = .186 MACH = .59422 Q = 530.06 P = 2387.2 RN/L = 4.7978

SECTION ( 1 ) LEFT WING BOT SURF

DEPENDENT VARIABLE CP

2Y/8W .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.010  
.020  
.040  
.050  
.060  
.070  
.080  
.090  
.100  
.110  
.120  
.130  
.140  
.150  
.160  
.170  
.180  
.190  
.200  
.210  
.220  
.230  
.240  
.250  
.260  
.270  
.280  
.290  
.300  
.310  
.320  
.330  
.340  
.350  
.360  
.370  
.380  
.390  
.400  
.410  
.420  
.430  
.440  
.450  
.460  
.470  
.480  
.490  
.500  
.510  
.520  
.530  
.540  
.550  
.560  
.570  
.580  
.590  
.600  
.610  
.620  
.630  
.640  
.650  
.660  
.670  
.680  
.690  
.700  
.710  
.720  
.730  
.740  
.750  
.760  
.770  
.780  
.790  
.800  
.810  
.820  
.830  
.840  
.850  
.860  
.870  
.880  
.890  
.900  
.910  
.920  
.930  
.940  
.950  
.960  
.970  
.980  
.990  
1.000

-.7146

**(XEBL 68)**

$$A\_PHA ( 5 ) = 11.993 \quad EETA ( 3 ) = .186$$

SECTION (1) LEFT WING BOT SURF

2Y/8W	.2930	.3640	.4270	.5340	.6730	.7800	.8870	.9720
-------	-------	-------	-------	-------	-------	-------	-------	-------

X/CW

[illegible]

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 2765

ALPHA ( 5 ) = 11.980 BETA ( 4 ) = 4.247 MACH = .59422 Q = 590.06 P = 2387.2 RN/L = 4.7978

(XEBLS)

SECTION 1 LEFT WING BOT SURF

DEPENDENT VARIABLE CP

2Y/BL	.2990	.3540	.4270	.5340	.6730	.7800	.8870	.9720
X/CM								
.010	-.9898	-.9579	-.5122	.2634	.2724	.0818	.0202	
.020	.0000	-.5961	-.0931	.3619	.3630	.3277	.2325	-1.3632
.040		-.4518	.2324	.3395	.3666	.3391	.2789	-.8684
.050	-.2864							
.069				.2932				
.080								
.086		-.0101	.2652					
.094								
.150	-.1313			.2244	.2447	.2459	.1444	-.3539
.157								
.163		.2374						
.177			.2257					
.229	.0481	.1732		.1721	.1696	.1547	.0724	
.246								
.250								
.274			.1759					
.345		.1556		.0979	.0862			-.3155
.390			.1216			-.0191		
.402								
.503				-.0129	-.0362			-.3638
.550			-.2710					
.565								
.600								
.637		-.0059				-.2061		
.650								
.670						-.1854		
.700					-.2062			-.3660
.725				-.1841				
.750						-.4524		-.4232
.760			-.2003					
.775				-.6489	-.2993			
.798		-.2111						
.809			-.4363					
.834	-.1834							
.839		-.3210						
.852				-.2870	-.2117	-.3196		
.857			-.2841					
.862								-.2768
.865	-.3509							
.879		-.2503						
.900	-.2121			-.2066				-.2538
.905			-.2073					
.919		-.1971						

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING BOT

(XEBL68)

ALPHA ( 5 ) = 11.990 BETA ( 4 ) = 4.247

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.950 -.1094 -.1383 -.1523

.953

-.1008

.955

-.1153

.965

.0450

1.000

-.0019

-.0610

ALPHA ( 5 ) = 11.973 BETA ( 5 ) = 8.307 MACH = .59422 Q = 590.06 P = 2387.2 R0/L = 4.7578

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.010 -1.2177 -.7236 -.7453 .0912 .1159 -.1374 -.1604

.020

.0000

.2526

.1976

.1051

-1.4105

.040

-.5320

.1296

.2857

.3053

.2687

.2099

-.4308

.2526

-.9570

.069

.080

.081

.086

.094

.150

.157

.163

.177

.1767

.2031

.2037

.2179

.2136

.1044

.1430

.1552

.1485

.1270

.0398

.274

.315

.1461

.0814

.0744

-.0431

-.3484

.400

.1090

-.0227

-.0476

-.3925

.550

.565

-.3112

-.2223

-.0058

.637

.650

.670

-.1968

-.3710

.725

.750

.760

-.2189

-.4499

-.4177

-.2088



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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING BOT

(XEBL67) ( DS ALTS 75 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO  
 LREF = 474.8000 IN. YMRP = .0000 IN. YO  
 BREF = 936.0680 IN. ZMRP = 375.0000 IN. ZO  
 SCALE = .0300

## PARAMETRIC DATA

RUDDER = .000 SPDBRK = 55.000  
 BDFLAP = 22.500 L-ELVN = -4.000  
 R-ELVN = -4.000 MACH = .900

ALPHA ( 1 ) = -3.954 BETA ( 1 ) = -3.849 MACH = .90057 Q = 600.66 P = 1059.0 RNU/L = 3.6340

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

27/84 .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.010	-.1279	-.2977	-.4919	-1.0794	-1.2441	-1.0207	-1.0342
.020	.0000	-.2542	-.5360	-1.2582	-1.3138	-1.3211	-1.3434
.040	.0000	-.2250	-.6558				-1.3467
.050	-.1235			-1.1535	-1.3127	-1.3568	-1.3726
.060							-1.2494
.080				-1.0638			
.081							
.085				-.4789			
.094	-.1147						
.150							
.157							
.163							
.177							
.223	-.0504			-.4692			
.246							
.253							
.274							
.345							
.390							
.400							
.402							
.503							
.550							
.565							
.600							
.637							
.651							
.670							
.700							
.725							
.730							
.760							
.775							
.798							
.806							
.834							
.839							
.851							

-.3593 -.4695 -.3836

DATE 10 FEB 76

TABULATED PRESSURE DATA - OA

1-073-1 )

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AVES 11-07310A148)

JA/B/C/R ORB LEFT WING BOT

(XEBL67)

ALPHA ( 1 ) = -3.954 BETA ( 1 ) = -3.849

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW  
.857  
.862  
.865  
.879  
.900  
.905  
.919  
.950  
.953  
.955  
.965  
1.000

-.5963  
-.2992  
-.3220  
-.2854  
-.1894  
-.2086  
-.1406  
-.1023  
-.0932  
-.0850

-.2934

-.5116

ALPHA ( 1 ) = -3.952 BETA ( 2 ) = .192 MFC = .90057

Q

P

= 500.68

RM/L = 3.6340

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW  
.010  
.020  
.040  
.050  
.069  
.080  
.081  
.086  
.094  
.150  
.157  
.163  
.177  
.229  
.246  
.250  
.274  
.345  
.330  
.400  
.402  
.503  
.550  
.565  
.600

-.7279

-.6570

-.3907

-.4717

-.4302

-.2774

44







DATE 10 FEB 76 TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

(XEBL57)

AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING BOT

RN/L = 3.6167

P = 1056.9

Q = 801.04

MACH = .90130

BETA ( 1 ) = -3.871

ALPHA ( 2 ) = .049

SECTION ( 1 ) LEFT WING BOT SURF

DEPENDENT VARIABLE CP

2Y/BN	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CM								
.010	.0366	.0852	.0967	-.6626	-.8342	-.7632	-.6409	
.020	.0000	.0686	-.0111	-.6260	-.7948	-.7879	-.9081	-.3415
.040		.0807	-.1763					
.050	.0061			-.5357	-.6222	-.7165	-.7844	-.3614
.069								
.080				-.3607				
.081								
.085		.0925						
.094	-.0078							
.150				-.2172	-.2246	-.2642	-.2916	-.2410
.157		.0161						
.163								
.177			-.1856					
.229	.0260							
.246		-.1359		-.1539	-.2073	-.2399	-.2609	
.250								
.274			-.1314					-.2586
.345								
.390		-.1106		-.1333	-.1428		-.2008	
.400			-.0936					-.2099
.402								
.503				-.2028	-.2149			
.550								
.565			-.8499				-.2883	
.500								
.637		-.1941				-.3195		-.5625
.650								
.670					-.2730			
.700				-.2817		-.4776	-.7581	
.725								
.750			-.2042					
.760				-.5818	-.6172			
.775								
.798		-.2520						
.838			-.6865					
.844								
.839	-.2988	-.6141		-.3479	-.4631	-.3816		-.2060
.850			-.3425					
.857								
.832								
.805	-.6289							
.879		-.2885						-.2013
.900	-.2902			-.3245				
.905			-.2863					
.919		-.1974						

	ALPHA ( 2 ) =	.049	BETA ( 1 ) =	-3.871
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SECTION C LEFT WING BOT SURF

2Y/8W	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
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$\lambda$ , cm	$\epsilon$	$\nu$ , cm <sup>-1</sup>	$\nu$ , cm <sup>-1</sup>
9.60	—	2950	3626
9.70	—	—	2652

- .1466

1911-  
-1161

8011.-      6811.-

053 BETA (3) 177

**SECRET**

DEPENDENT LEFT HING POT SURF

**SECRET**

.2990	.3640	.4270	.5340	.6730
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.0330 .1070 .1769 -.4681 -.6814

.0000	.1044	.1008	-.4754	-.5957
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0610. -1.3651 -1.4821

- 2936

- .1310

0621.

1.0084

6/01:- 6603:-

**.0719**

4141'-

9140.0416

6060 - 1418 - 1848

6411 - 6411

- 0860

-.1342    -.1536

**-:0930**

**-0.2171    -0.2280**

6088 -

0261'-

**-.3057**

04627-2

3320

— 2523

...

1. The first step in the process is to identify the problem or issue that needs to be addressed. This involves gathering information and understanding the context of the problem.

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TABULATED PRESSURE DATA - OA148 ( AMES 11-073-1 )

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AMES 11-073(OA148) - 140A/B/C/R ORB LEFT WING BOT

(XEBL67)

ALPHA ( 2 ) = .052 BETA ( 2 ) = .177

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CM

.775 -.2747 -.5886 -.6302

.798 -.6690

.809

.834 -.2940

.839 -.6200

.850

.857 -.3215

.862

.865

.873 -.6125

.900 -.2958

.905 -.3151

.919 -.2789

.950 -.2086

.953 -.2213

.955 -.1487

.965 -.1408

1.000 -.1059

ALPHA ( 2 ) = .052 BETA ( 3 ) = 4.253 MACH = .90130 0 = 601.04 P = 1056.9 RN/L = 3.6167

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CM

.010 -.0138 .0791 .2321 -.2995 -.5103 -.5764 -.5499

.020 .0003 .1011 .1727 -.3519 -.4233 -.4960 -.6311

.040 .1201 .0202

.050 .0158

.069 -.2507

.080 -.3704

.081 -.4162

.086 -.2154

.094 -.0671

.150

.157

.163

.177

.229

.246

.250

.274

.345

.390

.0115

.1073

.0508

-.0608

-.0991

-.1287

-.1744

-.2097

-.2666

-.3515

-.0765

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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(XEBL67)

ALPHA ( 2 ) = .052 BETA ( 3 ) = 4.253

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .88 .9720

X/CW

.400							
.402							
.503							
.550							
.565							
.600							
.637							
.650							
.670							
.700							
.725							
.750							
.760							
.775							
.798							
.838							
.834							
.839							
.850							
.857							
.852							
.865							
.879							
.900							
.905							
.919							
.930							
.933							
.935							
.945							
1.000							

ALPHA ( 3 ) = 4.019 BETA ( 1 ) = -3.877 MACH = .89987 Q = 599.87 P = 1058.3 RN/L = 3.6007

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.410							
.420							
.440							
.450							
.459							
.469							
.480							
.490							
.500							
.510							
.520							
.530							
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.580							
.590							
.600							
.610							
.620							
.630							
.640							
.650							
.660							
.670							
.680							
.690							
.700							
.710							
.720							
.730							
.740							
.750							
.760							
.770							
.780							
.790							
.800							
.810							
.820							
.830							
.840							
.850							
.860							
.870							
.880							
.890							
.900							
.910							
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.930							
.940							
.950							
.960							
.970							
.980							
.990							
1.000							

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 2776

(XEBL67)

AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING BOT

A\_PHA ( 3 ) = 4.019 BETA ( 1 ) = -3.877

SECTION ( 1 ) LEFT WING BOT SURF	DEPENDENT VARIABLE CP			
2Y/BA	.2990	.3640	.4270	.5340 .6730 .7800 .8870 .9720
X/C4			.0606	
.081		.2274		
.086				
.094	.0580			
.150			.0022	-.0091 -.0162 -.0783
.157				
.163		.1949		
.177				
.229	.0996		.0199	
.246				
.250		.0333		
.274			.0190	
.345				
.390		.0231		
.400				
.402			.0142	
.503				
.550			-.0215	-.0309 -.1197
.555				
.627			-.1225	-.1409
.637				
.650				
.670				
.700				
.725				
.750				
.760				
.775				
.798				
.808				
.834				
.839				
.850				
.857				
.862				
.865				
.873				
.900				
.905				
.919				
.950				
.953				
.955				
.985				
1.007				





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(XEBL67)

AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING BOT

ALPHA ( 3 ) = 4.018 BETA ( 2 ) = .181

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.950  
.953  
.955  
.965  
1.000  
-1.285  
-1.307  
-2.143  
-2.2736 -2.053 -2.2134  
-1.1094 -0.0665 -0.0729

ALPHA ( 3 ) = 4.022 BETA ( 3 ) = 4.243 MACH = .89987 Q = 599.87 P = 1058.3 RAY/L = 3.6007

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.010  
.020  
.040  
.050  
.053  
.059  
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-.2632

-.3645

-.3930

-.6248

-.7312

-.2179

DATE 10 FEB 76

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 2779

AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING BOT

(XEBL67)

ALPHA ( 3 ) = -.022 BETA ( 3 ) = 4.243

SECTION 1 LEFT WING BOT SURF

DEPENDENT VARIABLE CP

2Y/B4	.2930	.3540	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.775								
.799								
.828								
.834								
.839								
.870								
.857								
.862								
.955								
.879								
.900								
.935								
.919								
.950								
.933								
.955								
.965								
1.000								

-.6698 -.5996

-.2357

-.7050

-.2456

-.5582

-.2966

-.3063 -.3937 -.3501

-.5724

-.3052

-.2807

-.2406

-.1916

-.2480 -.2030 -.2490

-.1930

-.1309

-.1859

-.0304

-.0850

-.0897

Q

P

600.32

1057.8

RN/L

3.5837

ALPHA ( 4 ) = 7.995 BETA ( 1 ) = -3.860 MACH = .90040

SECTION 1 LEFT WING BOT SURF

DEPENDENT VARIABLE CP

2Y/B4	.2930	.3540	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.810								
.820								
.830								
.840								
.850								
.860								
.870								
.880								
.890								
.900								
.910								
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.930								
.940								
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.960								
.970								
.980								
.990								
1.000								

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.230

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-.1772

.0000

.1215

.0373

.0776

.2835

.2642

.1904

.1875

.3254

.1900

.1552

.1480

.1276

.1039

.0316

.1895

.1928

.2125

.1-36

-.2125

DATE 10 FEB 76

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 2780

(XEBL57)

AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING BOT

ALPHA ( 4 ) = 7.995 BETA ( 1 ) = -3.860

SECTION ( 1 ) LEFT WING BOT SURF

DEPENDENT VARIABLE CP

2Y/BA	.2990	.3640	.4270	.5340	.6730	.7800	.9870	.9720
X/CM								
.400								
.402								
.503			.1213	.0847	.0753		-.0325	
.550								-.2535
.565				-.0360	-.0596			
.600			-.6658					
.637								
.650		-.0385						
.670						-.2008		
.700								
.711								
.750								
.760								
.775								
.798								
.839								
.850								
.857								
.865								
.875								
.900								
.905								
.919								
.950								
.953								
.955								
1.000								

X/CM

.400

.402

.503

.550

.565

.600

.637

.650

.670

.700

.711

.750

.760

.775

.798

.839

.850

.857

.865

.875

.900

.905

.919

.950

.953

.955

1.000

ALPHA ( 4 ) = 7.993 BETA ( 2 ) = .182 MACH = .90040 Q = 600.32 P = 1057.8 RV/L = 3.5837

SECTION ( 1 ) LEFT WING BOT SURF

DEPENDENT VARIABLE CP

2Y/BA	.2990	.3640	.4270	.5340	.6730	.7800	.9870	.9720
X/CM								
.400								
.402								
.503								
.550								
.565								
.600								
.637								
.650								
.670								
.700								
.711								
.750								
.760								
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.905								
.919								
.950								
.953								
.955								
1.000								

X/CM

.400

.402

.503

.550

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.900

.905

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.950

.953

.955

1.000

DATE 10 FEB 76

(XEBL 67)

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT

$$\text{ALPHA} ( 4 ) = 7.993 \quad \text{BETA} ( 2 ) = .182$$

SECTION 1 LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/3M	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
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DATE 10 FEB 76

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 2782

AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING BOT (XEBL67)

ALPHA ( 4 ) = 7.992 BETA ( 3 ) = 7.242 MACH = .90040 Q = 600.32 P = 1057.8 RN/L = 3.5837

SECTION ( 1 ) LEFT WING BOT SURF

DEPENDENT VARIABLE CP

2Y/BW	.2990	.3540	.4270	.5340	.6730	.7800	.8870	.9720
X/CM								
.010								
.020	-.5466	-.3404	.0926	.4548	.4011	.4040	.3543	
.040	.0000	-.1680	.2612	.3869	.3845	.3493	.3023	-.4971
.060	-.1297	-.0928	.3191	.2973	.2682	.2519	.2187	-.3900
.080				.2363				
.100		.1461	.2579					
.120	-.0388			.1805	.1801	.1616	.0895	-.2442
.140		.2766	.1917					
.160	.0889			.1333	.1172	.0935	-.0044	
.180		.1676	.1543					-.2499
.200		.1461		.0696	.0568		-.0677	
.220			.1075					-.2895
.240				-.0464	-.0719			
.260			-.7076					
.280	-.0389							-.2594
.300				-.2090				-.5859
.320					-.2108			
.340				-.1790				
.360					-.6623			-.6317
.380								
.400								
.420								
.440								
.460								
.480								
.500								
.520								
.540								
.560								
.580								
.600								
.620								
.640								
.660								
.680								
.700								
.720								
.740								
.760								
.780								
.800								
.820								
.840								
.860								
.880								
.900								
.920								
.940								
.960								
.980								
.995								
.915								

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DATE 10 FEB 76 TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )  
AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING BOT (XEBL57)

ALPHA ( 4 ) = 7.992 BETA ( 3 ) = 4.242

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.950  
.953  
.955  
.965  
1.000  
-0.1883 -0.2884 -0.4970  
-0.1418  
-0.1385  
-0.1995  
-0.0463 -0.1701 -0.3750

ALPHA ( 5 ) = 11.953 BETA ( 1 ) = -3.856 MACH = .89987 Q = 599.87 P = 1058.3 RN/L = 3.5762

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.010  
.020  
.040  
.050  
.069  
.080  
.081  
.086  
.094  
.150  
.157  
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.177  
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.402  
.503  
.550  
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.630  
.637  
.650  
.670  
.700  
.725  
.750  
.760  
-0.4705 -0.5664 .2185 .6289 .6026 .5894 .5306  
.0000 -0.1375 .4254 .5704 .5703 .5579 .5058  
-0.0142 -0.0274 .4846 .4679 .4612 .4523 .4185  
-0.2180  
-0.4028  
-0.4102  
-0.2789  
-0.0812  
-0.4162  
-0.3217  
-0.2071  
-0.2979  
-0.2689  
-0.2527  
-0.2149  
-0.0507 .0246  
-0.6163  
-0.0466  
-0.1841  
-0.1913  
-0.1393  
-0.1575  
-0.2007  
-0.5777  
-0.5916 -0.5854  
-0.2076  
-0.1903  
-0.1192

DATE 10 FEB 76

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 2784

(XEBL57)

AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING BOT

ALPHA ( 5 ) = 11.953 BETA ( 1 ) = -3.856

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW	.775							
	.798							
	.808							
	.834							
	.839							
	.850							
	.857							
	.862							
	.865							
	.879							
	.900							
	.905							
	.919							
	.950							
	.953							
	.955							
	.965							
	1.002							

ALPHA ( 5 ) = 11.963 BETA ( 2 ) = .189 MACH = .89987 Q = 599.87 P = 1059.3 RN/L = 3.5762

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW	.010							
	.020							
	.040							
	.053							
	.069							
	.080							
	.081							
	.085							
	.094							
	.150							
	.157							
	.163							
	.177							
	.229							
	.250							
	.274							
	.345							
	.390							





DATE 10 FEB 76

## TABULATED PRESSURE DATA - OA148 ( AMES 11-073-1 )

PAGE 2786

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT

(XEBL67)

ALPHA ( 5 ) = 11.953 BETA ( 3 ) = 4.261

SECTION ( 1 ) LEFT WING BOT SURF

DEPENDENT VARIABLE CP

2Y/UM	.2930	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.081			.3373					
.086		.1069						
.094	-.0703			.2913	.2951	.2790	.1756	-.3004
.150								
.157		.3160						
.163			.2938					
.177	.1121							
.229		.2459		.2331	.2187	.1944	.0931	
.246								
.250								
.274			.2425					
.345								
.390		.2305		.1498	.1365		-.0016	-.2634
.400								
.402			.1837					
.503				.0280	-.0023			.3141
.550			-.5929					
.565								
.600								
.637		.0311						
.650								
.670					-.1690			-.6615
.700								
.725				-.2235	-.1965			
.750			-.2510			-.6510	-.6238	
.760								
.775				-.6252	-.7054			
.798		-.2555						
.808			-.6445					
.844	-.2423							
.849		-.6101						
.850								
.857								
.862				-.7811	-.6730	-.8019		-.6532
.865								
.879	-.6190							
.900		-.5291						
.945	-.4184			-.6424			-.8826	
.910			-.6641					
.920		-.4854						
.953			-.2302	-.3072	-.4702	-.6409		
.955								
.965		-.2228						
.965	-.2559							
1.000			-.0973	-.2841			-.5265	



DATE 10 FEB 76

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 2788

AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING B.U.

(XEBL68)

ALPHA ( 1 ) = -3.934 BETA ( 1 ) = -7.845

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.857	-.2871						-.4011
.862							
.865	-.3678						
.879	-.2577						
.900	-.1935	-.2066				-.2065	
.905		-.1712					
.919	-.1549						
.950		-.0872	-.3193	-.0806			
.953	-.0663						
.955	-.0685						
.965	-.0554						
1.000	.0066	-.0534		-.0235			

ALPHA ( 1 ) = -3.918 BETA ( 2 ) = -3.844 MACH = .59574 Q = 593.04 P = 2387.2 RN/L = 4.8347

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.810	-.1901	-.4471	-2.0884	-2.0624	-1.7877	-1.6371	
.820	.0000	-.3901	-1.9059	-1.9510	-1.4218	-1.5090	-.9721
.840		-.3532	-.7786				
.850	-.1746		-.8987	-.9680	-1.1401	-1.1341	-.8868
.869							
.880			-.6678				
.881		-.5391					
.886	-.1587	-.2395					
.889							
.890			-.4315	-.4752	-.5527	-.5669	-.3423
.891							
.896							
.897		-.2908					
.898			-.3563				
.899	-.1304						
.929		-.3336					
.946							
.953		-.2659					
.974			-.3013	-.3519	-.3932	-.4049	
.990	-.2362						-.3934
.996			-.2323	-.2560		-.2999	
.997		-.1975					-.3867
.998			-.2549	-.2762			
.999	-.1744						-.3497
.999							



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$$\text{ALPHA} (1) = -3.895 \quad \text{BETA} (3) = .193$$

SECTION ( ) LEFT WING BOT 5' 2F

2Y/8H	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
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[illegible]

DATE 10 FEB 76

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 2781

AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING BOT

(XEBLEB)

ALPHA (1) = -3.903 BETA (4) = 4.270 MACH = .59574 Q = 593.04 P = 2387.2 RV/L = 4.8347

SECTION (1) LEFT WING BOT SURF DEPENDENT VARIABLE CP

SECTION (1) LEFT WING BOT SURF	DEPENDENT VARIABLE CP	Q	P	RV/L
24/84	.2990 .3540 .4270 .5340 .6730 .7800 .8870 .9720			
X/CH				
.010	-.0415	-.3591	-1.4722	-1.6493
.020	-.0000	-.4193	-1.1706	-1.2863
.040	-.0692	-.4355	-.6617	-.7531
.050	-.0587		-.5101	-.8458
.069		-.3582		-.8926
.080				-.5263
.081				
.086	-.0635			
.094		-.3377	-.3815	-.4102
.150				-.4296
.157				-.2778
.163	-.1293			
.177		-.2672		
.229	-.0438			
.246		-.2283		
.250				
.274		-.2122		
.345		-.2457	-.2934	-.3218
.390				-.3186
.400		-.1995	-.2227	
.402				-.2494
.503		-.1713		
.550		-.2327	-.2515	
.565				-.3183
.600		-.1806		
.637				-.3013
.650	-.2179			
.670			-.3005	
.700		-.2807		-.4262
.713				
.750		-.2748		-.5060
.760				-.4630
.775		-.7081	-.4077	
.778				
.834	-.2555	-.5324		
.839				
.850		-.3744		
.857				
.862		-.3095	-.2793	-.2677
.865				-.3374
.875	-.4019			
.879		-.2716		
.900	-.2544			
.905		-.1861		-.1609
.925				
.933		-.1777		
				-.1830



21 3.70

$$\text{ALPHA} : 11 = -3.916 \quad \text{BETA} : 5 = 0.339$$

AMES 11-073(OA148) -140A/B/C/R ORB LEFT WING BOT

SECTION - LEFT WING BOT SURF

DEPENDENT VARIABLE CP

2017/18	.2990	.3500	.4270	.5340	.6730	.7800	.8870	.9720
---------	-------	-------	-------	-------	-------	-------	-------	-------

**MC/CH**

**-.6995    -.3956**

86L.

**-.5069**

cc: -

...

05630

679.

1203-

5561 -

- 0770

100

1430.

188 MACH = .59556

1.250 3000 751.0

**.6730 .7800 .8870**

101

.0076  
.0398

0720.

0404.

153

0648

1. 1. 1.

533

!

( )  
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 ( )  
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1



DATE 10 FEB 76

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

(XEBL68)

AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING BOT

ALPHA ( 2 ) = .067 BETA ( 1 ) = -7.888

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/84 .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.400							
.402							
.503							
.553							
.565							
.600							
.637							
.650							
.670							
.700							
.720							
.750							
.760							
.775							
.774							
.808							
.834							
.839							
.850							
.857							
.862							
.865							
.879							
.900							
.905							
.919							
.950							
.953							
.955							
.965							
1.000							

ALPHA ( 2 ) = .076 BETA ( 2 ) = -3.860 MACH = .59556 O = 592.68 P = 2387.2 RN/L = 4.8372

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/84 .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.010							
.020							
.040							
.050							
.059							
.080							

DATE 10 FEB 76  
TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )  
AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING BOT

ALPHA ( 2 ) =	.076	BETA ( 2 ) =	-3.860
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**SECTION 1 11167 WING BOT SUFF**

2Y/84	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
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[illegible]

DATE 10 FEB 76

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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(XEBL68)

AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING BOT

RN/L = 4.8372

P

Q = 572.68

= 2387.2

SECTION ( 1 ) LEFT WING BOT SURF

DEPENDENT VARIABLE CP

2Y/DW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	.0073	.0645	.0690	-.5863	-.7055	-.7397	-.6888	
.020	.0000	.0491	-.0131	-.5987	-.5422	-.6210	-.7045	-.2386
.040		.0595	-.1606	-.3584	-.3885	-.4439	-.4663	-.2123
.050	-.0060							
.069				-.2876				
.080			-.1768					
.081		.0581						
.086	-.0167			-.1886	-.2043	-.2286	-.2534	-.1955
.094								
.150								
.157								
.163		-.0114						
.177	-.0012		-.1468					
.223		-.1297		-.1494	-.1748	-.1999	-.2140	-.1917
.246			-.1268					
.250								
.274								
.345		-.1051		-.1375	-.1543		-.1886	-.2453
.390			-.1054					
.400				-.1877	-.2111			
.402			-.2232					
.503								
.550								
.565								
.600								
.637		-.1820				-.2761		-.2981
.650								
.670								
.700				-.2643	-.2901			
.725								
.740								
.760			-.2563	-.7114	-.4092			
.775								
.793		-.2811						
.808			-.5630					
.834	-.2374							
.839		-.3793		-.3234	-.2913	-.2738		-.1498
.850								
.857			-.2919					
.862								
.875	-.3908							
.879		-.2688						
.900	-.2336			-.1939			-.1352	
.905			-.1825					
.919		-.1762						

DATE 10 FEB 76

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 2797

(XEBL68)

AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING BOT

ALPHA ( 2 ) = .078 BETA ( 3 ) = .177

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.950 -.0749 -.2061 -.0652

.953

.955 -.0950

.965 -.1431

1.000

.0205 .0181 .0253

ALPHA ( 2 ) = .074 BETA ( 4 ) = 4.252 MACH = .59556 Q = 592.68 P = 2387.2 RN/L = 4.8372

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.010 -.0244 .0463 .1369 -.3842 -.5140 -.5037 -.4752

.020

.040 .0560 .0721 -.3990 -.4184 -.4721 -.5375 -.1878

.050

.069 .0726 -.0650

.080

.081 .069 -.2840 -.3055 -.3523 -.3710 -.1783

.086

.094 .0804 -.2189

.150

.157 -.0112

.163

.177 .0262

.229 -.1148

.246

.250 -.0959

.274

.345 -.1002

.390

.400 -.0864

.402

.503 -.1238 -.1405

.550

.565 -.1799 -.1984

.600

.637 -.2324

.650

.670 -.1756

.700

.725 -.2671

.750

.760 -.2601

.760

.760 -.2586

.760

.760 -.2659

.760

.760 -.5026

.760

.760 -.4469

.760







DATE 10 FEB 76 TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

ALPHA ( 2 ) = 7.025 BETA ( 2 ) = -3.962 MACH = .59644 Q = 594.20 P = 2386.1 RN/L = 4.8446 (XEBL68)

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BA .2930 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.010	.0189	.0707	.3252	.0564	.0372	.1437	.1809	
.020	.0000	.1144	.2620	-.0512	.0011	.0160	.0316	-.0580
.040		.1418	.0990	-.0516	-.0473	-.0371	-.0307	-.0722
.050	.0449			-.0516				
.060								
.080								
.100		.1630	.0097					
.120	.0387			-.0293	-.0179	-.0210	-.0551	-.1393
.140		.1144	-.0126					
.160	.0570			-.0186	-.0412	-.0571	-.0802	
.180		-.0126	-.0138					-.1314
.200		-.0108	-.0197	-.0497	-.0516		-.1072	
.220			-.2463	-.1272	-.1503			-.2162
.240								
.260								
.280								
.300								
.320								
.340								
.360								
.380								
.400								
.420								
.440								
.460								
.480								
.500								
.520								
.540								
.560								
.580								
.600								
.620								
.640								
.660								
.680								
.700								
.720								
.740								
.760								
.780								
.800								
.820								
.840								
.860								
.880								
.900								
.920								
.940								
.960								
.980								
.1000								



DATE 10 FEB 76

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 2802

(XEBL58)

ALPHA : 31 = 4.025 BETA : 21 = -3.862

AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING BOT

SECTION : LEFT WING BOT SURF DEPENDENT VARIABLE CP

2V BW .2330 .3540 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.950  
.953  
.955  
.956  
1.000  
-0.076  
-0.0692  
-0.0544  
-0.0531  
-0.2262  
-0.0659  
0.0427  
0.0461  
0.0575

ALPHA : 31 = 4.023 BETA : 31 = .162 MACH = .5944 Q = 594.20 P = 2386.1 RN/L = 4.8446

SECTION : LEFT WING BOT SURF DEPENDENT VARIABLE CP

2V BW .2330 .3540 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.950  
.953  
.955  
.956  
1.000  
-0.076  
-0.0692  
-0.0544  
-0.0531  
-0.2262  
-0.0659  
0.0427  
0.0461  
0.0575  
-0.0199  
-0.0175  
-0.0178  
-0.0349  
-0.1403

ALPHA : 31 = 4.023 BETA : 31 = .162 MACH = .5944 Q = 594.20 P = 2386.1 RN/L = 4.8446

SECTION : LEFT WING BOT SURF DEPENDENT VARIABLE CP

2V BW .2330 .3540 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.950  
.953  
.955  
.956  
1.000  
-0.076  
-0.0692  
-0.0544  
-0.0531  
-0.2262  
-0.0659  
0.0427  
0.0461  
0.0575  
-0.0199  
-0.0175  
-0.0178  
-0.0349  
-0.1403  
-0.0199  
-0.0175  
-0.0178  
-0.0349  
-0.1403

ALPHA : 31 = 4.023 BETA : 31 = .162 MACH = .5944 Q = 594.20 P = 2386.1 RN/L = 4.8446

SECTION : LEFT WING BOT SURF DEPENDENT VARIABLE CP

2V BW .2330 .3540 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.950  
.953  
.955  
.956  
1.000  
-0.076  
-0.0692  
-0.0544  
-0.0531  
-0.2262  
-0.0659  
0.0427  
0.0461  
0.0575  
-0.0199  
-0.0175  
-0.0178  
-0.0349  
-0.1403  
-0.0199  
-0.0175  
-0.0178  
-0.0349  
-0.1403





(XEBL68)

DATE 10 FEB 75 TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

AMES 11-07310A148) -140A/B/C/R ORB LEFT WING BOT

ALPHA ( 3 ) = 4.033 BETA ( 5 ) = 8.290

SECTION 1 LEFT WING BOT SURF DEPENDENT VARIABLE CP

21 0m .2330 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X CW

.081	.0904						
.096	.0565						
.034	-.0720		.0121	.0100	.0043	-.0575	-.2455
.150							
.157	.1295						
.153	.0351						
.177	.0056						
.229							
.246	.0196		-.0128	-.0304	-.0448	-.0954	
.250	.0000						-.2337
.274							
.345	.0010		-.0524	-.0598		-.1231	
.320	-.0235						-.2694
.502			-.1220	-.1459			
.503	-.2782						
.550							-.2455
.603	-.1176				-.2320		-.2932
.637							
.650							
.670							
.700			-.2331	-.2454			
.725							
.750	-.2419				-.4842	-.4525	
.760			-.6753	-.3540			
.775	-.2499						
.802	-.4800						
.834	-.2307						
.839	-.3593		-.2913	-.2289	-.2927		
.840			-.2335				-.1356
.857							
.862	-.3957						
.893	-.2651		-.1759			-.1480	
.900	-.2458						
.903			-.1935				
.909	-.1952		-.5557	-.0991	-.0644		
.930			-.0839				
.933	-.1118						
.935	-.2292		.0256	.0528		.0353	
.938							
.940							

DATE 10 FEB 75

TABULATED PRESSURE DATA - 0A148 (AMES 11-073-1)

PAGE 2806

AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING BOT

(XEBL68)

ALPHA (4) = 7.382 BETA (1) = -7.890 MACH = .59642 Q = 594.33 P = 2386.8 RN/L = 4.8439

SECTION (1) LEFT WING BOT SURF

DEPENDENT VARIABLE CP

24.54 .2930 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.310	-.0222	-.0588	.4032	.4680	.4775	.5512	.5314	
.320	.0000	.1055	.4335	.3295	.3955	.4187	.4291	-.1894
.340	.0961	.1610	.3112	.2210	.2559	.2743	.2924	-.1104
.360				.1754				
.380			.1988					
.400	.2546							
.420	.1102			.1392	.1540	.1717	.1277	-.1321
.440		.2421	.1281					
.460	.1350	.1158		.1058	.1010	.0917	.0589	
.480			.0981					-.0962
.500	.0862		.0697	.0460	.0434		-.0074	
.520								-.1955
.540			-.2975	-.0570	-.0694			
.560							-.1953	
.580	-.0569					-.1882		-.2793
.600					-.2095			
.620			-.1917					
.640						-.4840	-.4103	
.660			-.1869	-.6303	-.3472			
.680	-.2153							
.700		-.5213						
.720	-.1909							
.740		-.3185						
.760			-.2870	-.2706	-.2783			-.2163
.780			-.2476					
.800	-.2422							
.820		-.2136						-.2014
.840	-.1264			-.1810				
.860			-.1493					
.880								
.900			-.1244					

DATE 10 FEB 76

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 2807

(XEBL68)

AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING BOT

ALPHA = 7.982 BETA ( 1 ) = -7.690

SECTION 1 LEFT WING BOT SURF

DEPENDENT VARIABLE CP

21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200

-0.0556 -0.2132 -0.0692

-0.0415

-0.0401

-0.0461

0.0635

0.0549

0.0162

ALPHA = 7.933 BETA ( 2 ) = -3.860 MACH = .59642 Q = 594.33 P = 2386.8 RN/L = 4.8439

SECTION 2 LEFT WING BOT SURF

DEPENDENT VARIABLE CP

21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200

0.1842

0.2063

0.2093

0.2624

0.1373

0.1562

0.1098

-0.1859

0.2437

0.1352

0.1121

0.0281

0.1004

0.0802

0.0371

0.0640

0.0341

-0.0294

-0.1486

-0.0676

-0.0599

-0.0733

-0.2471

-0.0521

-0.1952

-0.2055

-0.3076

-0.1923

-0.2153

-0.4921

-0.4282

-0.1554

DATE 10 FEB 76

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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(XERL68)

AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING BOT

ALPHA ( 4 ) = 7.993 BETA ( 2 ) = -3.850

SECTION: ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.775							
.798							
.828							
.834							
.850							
.857							
.862							
.865							
.879							
.900							
.905							
.919							
.940							
.943							
.950							
.965							
1.000							

ALPHA ( 4 ) = 7.991 BETA ( 3 ) = .185 MACH = .59842 Q = 594.33 P = 2386.8 RV/L = 4.8439

SECTION: ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.810							
.820							
.830							
.850							
.860							
.880							
.890							
.900							
.910							
.920							
.930							
.940							
.950							
.960							
.970							
.980							
.990							
1.000							

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 2809

(XEB,69)

ALPHA ( 4 ) = 7.93; BETA ( 3 ) = .185

AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING BOT

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

21/54 .2930 .3540 .4270 .5340 .6730 .7800 .8870 .9720

X/C

.400	.0347	.0248	-.0551				
.402	.0585						
.503							
.550	-.0639	-.0851					-.2884
.555	-.2516						
.600							
.627	-.0666		-.2238				
.650							
.670			-.2055				
.700							-.3373
.720		-.2016	-.2177				
.730	-.2077						
.750		-.6714	-.3344				-.4442
.770	-.2263						
.800	-.1944						
.820							
.830	-.3266						
.850							
.870	-.2779		-.2955	-.2581	-.3052		-.2328
.900							
.955	-.3537						
.970	-.2406						
.975		-.1859					-.1947
.980	-.1733						
.985		-.3551	-.1529	-.0854			
.990	-.0728						
.995	-.0866						
.998	-.1597						
1.000		.0422	.0626			.0124	

ALPHA ( 4 ) = 7.932 BETA ( 3 ) = .1834 MACH = .59542 Q = 594.33 P = 2386.6 RN/L = 4.8439

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

21/54 .2930 .3540 .4270 .5340 .6730 .7800 .8870 .9720

X/C

.400	.0347	.0248	-.0551				
.402	.0585						
.503							
.550	-.0639	-.0851					-.2884
.555	-.2516						
.600							
.627	-.0666		-.2238				
.650							
.670			-.2055				
.700		-.2016	-.2177				-.3373
.720	-.2077						
.730		-.6714	-.3344				-.4442
.750	-.2263						
.770	-.1944						
.800							
.820	-.3266						
.850							
.870	-.2779		-.2955	-.2581	-.3052		-.2328
.900							
.955	-.3537						
.970	-.2406						
.975		-.1859					-.1947
.980	-.1733						
.985		-.3551	-.1529	-.0854			
.990	-.0728						
.995	-.0866						
.998	-.1597						
1.000		.0422	.0626			.0124	





DATE 10 FEB 76

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 2811

ALPHA = 7.990 BETA ( 5 ) = 8.288 MACH = .59642 Q = 594.33 P = 2386.8 RN/L = 4.8439  
 (XEBL68)

## SECTION 1 LEFT WING BOT SURF

## DEPENDENT VARIABLE CP

2Y EX .2390 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X-CA							
.010	-.7447	-.6315	-.2525	.2931	.2859	.2235	.1744
.020	.0000	-.4248	.0072	.2883	.2835	.2749	.2138
.040		-.3272	.1832				-1.0486
.050	-.2619			.2203	.2344	.2119	.1718
.060				.1696			-.7175
.080		.1720					
.100	-.1461	-.0083					
.120				.1153	.1260	.1232	.0313
.140							-.3629
.160		.1659					
.180	.0026	.1232					
.200				.0732	.0630	.0439	-.0257
.220		.0828					
.240							-.3582
.260	.0726			.0147	.0068		-.0950
.280		.0458					
.300				-.0739	-.1009		-.3872
.320	-.3075						
.340						-.2440	
.360	-.0668					-.2169	-.3753
.380				-.2056	-.2287		
.400						-.4637	-.4583
.420		-.2226		-.6531	-.3115		
.440	-.2316						
.460		-.4423					
.480	-.2050						
.500		-.3301		-.2843	-.2043	-.3056	
.520							-.2311
.540	-.2671	-.2219					
.560							
.580	-.2525			-.1930			-.1900
.600	-.2235	-.1373					
.620							
.640	-.1958						

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 2812

AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING BOT

(XEBL68)

ALPHA ( 4 ) = 7.990 BETA ( 5 ) = 8.288

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.950 -.0798 -.1107 -.0932

.953 -.0882

.955 -.1119

.965 -.2178

1.000

.0390 .0204 .0174

ALPHA ( 5 ) = 11.959 BETA ( 1 ) = -7.852 MACH = .59556 Q = 594.57 P = 2386.7 RN/L = 4.8403

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.010 -.3082 -.6234 .1445 .5967 .5956 .5278 .4672

.020 .0000 -.1613 .3828 .5581 .5816 .5782 .5299

.030 -.0294 .4490 .4433 .4787 .4851 .4607

.050 .0599

.060 .3659

.080 .3589

.090 .2640

.110 .1187

.130 .3615

.150 .2785

.170 .1942

.190 .2391

.210 .2270

.230 .2262

.250 .2205

.270 .1688

.290 .2170

.310 .1431

.330 .1422

.350 .0651

.370 .0254

.390 .0098

.410 -.3236

.430 .0125

.450 -.1591

.470 -.1343

.490 -.3016

.510 -.1472

.530 -.1323

.550 -.4227

.570 -.3680

.590 -.1556





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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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(XEBL68)

AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING BOT

ALPHA ( 5 ) = 11.98; BETA ( 3 ) = .186

SECTION 1 ( LEFT WING BOT SURF ) DEPENDENT VARIABLE CP

2Y/B	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW	.081	.0830	.3147					
.085								
.094	-.0397			.2551	.2772	.2749	.1827	
.150								-.3304
.157								
.163		.2916						
.177			.2459					
.203	.0978							
.246		.2062						
.250			.1990	.2001	.1922	.1776	.0968	
.274								-.2795
.345		.1739		.1193	.1053		.0020	
.400			.1425					-.3489
.451				.0002	-.0211			
.500			-.2709				-.1966	
.537	.0009							-.3686
.550					-.1668			
.570								
.600								
.637								
.650								
.670								
.700								
.725								
.750								
.760								
.775								
.793								
.809								
.834	-.1743							
.839								
.850								
.861								
.882								
.892								
.903								
.913								
.923								
.933								
.943								
.953								
.963								
.973								
.983								
.993								
.1.000								

-.0344

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ALPHA ( 5 ) = 11.977 BETA ( 4 ) = 4.246 MACH = .59556 Q = 594.57 P = 2386.7 RN/L = 4.8483 (XEBL68)

AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING BOT

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/8W	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CM								
.010	-.9732	-.9593	-.5079	.2581	.2675	.0716	.0181	
.020	.0000	-.6032	-.0952	.3584	.3601	.3168	.2293	-1.3619
.030		-.4572	.2319	.3457	.3624	.3368	.2795	
.050	-.2845							-.8621
.069				.2959				
.080			.2655					
.081								
.085		-.0086						
.094	-.11284			.2257	.2468	.2468	.1456	
.100								-.3587
.157		.2357	.2215					
.163								
.223	.0473	.1736		.1739	.1725	.1576	.0727	
.246								
.250		.1789						-.3152
.274				.1002	.0903		-.0185	
.345	.1580		.1249					-.3646
.390				-.0088	-.0343		-.2063	
.402			-.2766					
.503								
.540								
.546								
.550								
.557								
.637	-.0060					-.1823		-.3739
.640								
.670				-.1744	-.2098			
.700								
.703								
.750			-.1904					
.775				-.6333	-.2966			
.778		-.1565						
.848			-.4106					
.854	-.1785	-.2973						
.893				-.2772	-.2014	-.3112		-.2794
.900			-.2678					
.912								
.945	-.3319							
.973		-.2247						
.978	-.1768		-.2026				-.2535	
.995								
.999		-.1909						
.999								

REPRODUCIBILITY OF THE  
ORIGINAL PAGE IS POOR

DATE 10 FEB 76 TABULATED PRESSURE DATA - 11-073-1 ( AMES 11-073-1 )

(XEBL68)

AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING BOT

ALPHA ( 5 ) = 11.977 BETA ( 4 ) = 4.246

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

-.1066 -.1246 -.1449

-.0870

-.1025

-.1953

1.000

-.0554

ALPHA ( 5 ) = 11.969 BETA ( 5 ) = 8.308 MACH = .5956 Q = 594.57 P = 2388.7 RN/L = 4.8403

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

-.1.2175 -.7234 -.7392 .0973 .1123 -.1350 -.1664

.020 .0000 -.6393 -.2905 .2615 .2437 .1955 .1043 -1.3990

.040 -.5327 .1241 .2905 .3028 .2727 .2065 -.9648

.050 -.4322 .069 .2547

.080 .2163

.081 -.0934

.086 -.2298

.091 .1770

.101 .157

.150 .163

.177 .2037

.203 .1377

.246 .1648

.250 .1464

.274 .1108

.345 .0953 .0723 -.0469

.340 .1108

.402 .0212 -.0474 -.2173

.503 .3251

.550 .0130

.565 .1931

.637 .3772

.650 .2103

.670 .1754

.700 .4503

.750 .4112

.780 .2070



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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C/R ORB LEFT WING BOT

(XEBL69)

ALPHA ( 5 ) = 11.969 BETA ( 5 ) = 8.308

SECTION : 1) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.775							
.798							
.808							
.834							
.839							
.850							
.857							
.852							
.865							
.879							
.900							
.905							
.919							
.930							
.953							
.955							
.975							
1.000							

-.6311

-.2889

-.3884

-.1801

-.2994

-.2687

-.2752

-.1943

-.3163

-.2645

-.3255

-.2328

-.2015

-.2580

-.1858

-.1954

-.1860

-.1259

-.1192

-.1452

-.1135

-.0894

-.2002

.0430

-.0223

-.0780

DATE 10 FEB 76

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-07310A148) -140A/B/C ORB LEFT WING BOT

(XEBL69) ( 05 AUG 75 )

## REFERENCE DATA

SREF = 8000.0000 SQ.FT.    ZMRP = 1076.6800 IN. X0  
 LREF = 479.0000 IN.        YMRP = .0000 IN. Y0  
 BREF = 936.0000 IN.        ZMRP = 375.0000 IN. Z0  
 SCALE = .0300

## PARAMETRIC DATA

RUDDER = .000    SPOBRK = 55.000  
 BOFLAP = 22.500    L-ELVN = -10.000  
 R-ELVN = -10.000    MACH = .900

ALPHA ( 1 ) = -3.989    BETA ( 1 ) = -3.051    MACH = .89987    Q = 599.88    P = 1058.3    RN/L = 3.6263

## SECTION ( 1 ) LEFT WING BOT SURF    DEPENDENT VARIABLE CP

SECTION ( 1 ) LEFT WING BOT SURF	DEPENDENT VARIABLE CP
2Y/8W	.2990    .3640    .4270    .5340    .6730    .7800    .8870    .9720
X/CH	
.010	-1.1314
.020	-1.3066
.040	-1.0973
.050	-1.2746
.069	-1.5472
.080	-1.3244
.081	-1.3410
.086	-1.3563
.094	-1.3189
.150	-1.1682
.157	-1.3194
.163	-1.3792
.177	-1.3912
.229	-1.1762
.246	-1.0697
.250	-1.4867
.274	-1.148
.345	-1.1737
.390	-1.4746
.400	-1.3203
.402	-1.4070
.503	-1.4846
.510	-1.9370
.565	-1.1641
.600	-1.3732
.637	-1.6849
.650	-1.2727
.670	-1.2691
.700	-1.3903
.725	-1.2511
.750	-1.3132
.775	-1.2335
.798	-1.7837
.834	-1.1896
.839	-1.2164
.850	-1.8276
	-1.2511
	-1.0369
	-1.8183
	-1.8190
	-1.2654
	-1.912
	-1.4338
	-1.6231
	-1.5582

(XEBL69)

AMES 11-073(0A148) -140A/B/C ORB LEFT WING BOT

ALPHA ( 1 ) = -3.989 BETA ( 1 ) = -3.951

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.657 -1.0839

.662

.655

.653

.651

.649

.647

.645

.643

.641

.639

.637

.635

.633

.631

.629

.627

.625

.623

.621

.619

.617

.615

.613

.611

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.553

.551

.549

.547

.545

.543

.541

ALPHA ( 1 ) = -3.987 BETA ( 2 ) = .189 MACH = .89987 Q = 599.88 P = 1058.3 RV/L = 3.6283

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.610 -1.0839

.602

.600

.598

.596

.594

.592

.590

.588

.586

.584

.582

.580

.578

.576

.574

.572

.570

.568

.566

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(XEBL69)

AMES 11-073(0A148) -140A/B/C ORB LEFT WING BOT

ALPHA ( 1 ) = -3.987 BETA ( 2 ) = .189

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/C

.637	-.2894	-.2703	-.7947
.650			
.670		-.3114	
.700		-.3284	
.725			-.6811
.750		-.2252	-.9876
.760			
.775		-.5534	-.8849
.798		-.3183	
.808		-.7662	
.834			
.839		-.8544	
.850			
.857		-.4244	-.5871
.862		-.4512	-.5578
.869			-.8943
.873			
.900		-.4332	
.905		-.4453	-.5096
.909		-.4491	
.919		-.3714	
.950		-.4792	-.4158
.953		-.4489	-.4978
.955		-.3430	
.969		-.2892	
1.000		-.3262	-.2547
			-.4135

ALPHA ( 1 ) = -3.961 BETA ( 3 ) = 4.272 MACH = .89987 Q = 599.88 P = 1058.3 RN/L = 3.6263

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/C

.637	-.0063	-.1682	-.12986	-.11042	-.9591
.650		-.0112	-.11070	-.11641	-.9004
.670		-.0193	-.3094		
.700		-.0131	-.7017	-.12527	-.11430
.725			-.5465	-.9021	-.5762
.750					
.760		-.3030			
.775		.0380			
.798					
.808		-.0153			
.834			-.4399	-.5240	-.9313
.839				-.8684	-.3508
.850					
.857					
.862					
.869					
.873					
.900					
.905					
.909					
.919					
.950					
.953					
.955					
.969					
1.000					

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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(XEBL69)

AMES 11-073(0A148) -140A/B/C ORB LEFT WING BOT

ALPHA ( 1 ) = -3.981 BETA ( 3 ) = 4.272

SECTION ( 1 ) LEFT WING BOT SURF	DEPENDENT VARIABLE CP
27/BM	.2690 .3640 .4270 .5340 .6730 .7800 .8870 .9720
X/C	
.177	-.3238
.229	
.246	-.1983
.250	-.3353
.274	-.3584
.275	-.2878
.276	
.277	-.2478
.278	-.2543
.279	-.2663
.280	-.2325
.281	-.3122
.282	-.3572
.283	-.7636
.284	
.285	-.2942
.286	-.3147
.287	-.3645
.288	-.3888
.289	-.5034
.290	-.2888
.291	-.5034
.292	-.8164
.293	-.7565
.294	-.3398
.295	-.8050
.296	-.3535
.297	-.3990
.298	-.4951
.299	-.5134
.300	-.4311
.301	
.302	-.7334
.303	-.4220
.304	-.5322
.305	-.4211
.306	-.4468
.307	-.3704
.308	-.4538
.309	-.3729
.310	-.4860
.311	-.4415
.312	-.3354
.313	-.3070
.314	-.3377
.315	-.2763
.316	-.4085
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.400	

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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ALPHA : 21 = .008 BETA ( 1 ) = -3.858 MACH = .90190 Q = 601.65 P = 1056.5 RN/L = 3.6047  
 (XEBL69)

SECTION ( 1 ) LEFT WING BOT SURF

DEPENDENT VARIABLE CP

2Y/B4	.2990	.3640	.4270	.5340	.6730	.7800	.9870	.9720
X/CW								
.010	.0347	.0846	.0899	-.6769	-.8443	-.7819	-.6648	
.020	.0000	.0671	-.0192	-.6524	-.8273	-.8139	-.9489	-.3270
.040		.0765	-.1808					
.050	.0035			-.5421	-.6419	-.7344	-.8115	-.3850
.069								
.081			-.2089					
.086		.24						
.094	-.0102							
.103				-.2273	-.2333	-.2678	-.2847	-.2203
.117		.0155	-.1862					
.163								
.177								
.223	.0250	-.1351		-.1590	-.2117	-.2413	-.2537	
.260			-.1350					-.1649
.277								
.305		-.1167		-.1330	-.1433		-.1945	
.400			-.0932					-.2047
.423				-.2049	-.2132			
.453			-.8621				-.2660	
.469		-.1999						
.600					-.2862			-.7088
.610								
.670			-.3002		-.2955			
.700				-.6101	-.10555			
.744			-.1763					
.760				-.5556	-.8210			
.796		-.2307	-.8071					
.808								
.824	-.2638	-.9190						
.840			-.4543	-.4159	-.5912	-.5032		-.4948
.860								
.880								
.900	-.3454							
.910		-.4291						-.3999
.920				-.4482				
.930	-.4531		-.4425					
.940		-.3459						

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073:0A148) -140A/B/C ORB LEFT WING BOT

(XEBL69)

ALPHA ( 2 ) = .008 BETA ( 1 ) = -3.868

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/84 .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.950 -.4794 -.4330 -.4828

.953 -.4408

.955 -.3363

.955 -.2394

1.000

.3012 -.2255 -.2653

ALPHA ( 2 ) = .010 BETA ( 2 ) = .177 MACH = .90190 Q = 601.55 P = 1056.6 RN/L = 3.6047

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/84 .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.010 .0278 .1085 .1706 -.4972 -.6964 -.7594 -.6739

.020 .0000 .1071 .0895 -.4822 -.6260 -.6755 -.8465

.040 .0000 .1210 -.0663

.050 .0184 .3722 -.4937 -.5927 -.7305

.059 .0000 .3722 -.4937 -.5927 -.7305

.080 .0000 .2968

.081 .0000 .1337

.085 .0143 .1286

.094 .0000 .1974 -.2176 -.2428 -.3405

.157 .0000 .0692

.167 .0000 .1451

.177 .0000 .1451

.229 .0439 .0985

.243 .0000 .0985

.274 .0000 .1202

.345 .0000 .1468 .2031 .2326 .2676

.393 .0000 .1468 .2031 .2326 .2676

.400 .0000 .1360 .1565

.402 .0000 .1360 .1565

.503 .0000 .2187 .2251

.550 .0000 .2187 .2251

.555 .0000 .8721

.555 .0000 .8721

.637 .0000 .2054

.637 .0000 .2054

.650 .0000 .2054

.650 .0000 .2054

.670 .0000 .2054

.670 .0000 .2054

.725 .0000 .2054

.750 .0000 .2054

.760 .0000 .2054

.760 .0000 .2054

.760 .0000 .2054

.760 .0000 .2054

.760 .0000 .2054

.760 .0000 .2054

.760 .0000 .2054

.760 .0000 .2054

.760 .0000 .2054

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.760 .0000 .2054

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.760 .0000 .2054

.760 .0000 .2054

.760 .0000 .2054

.760 .0000 .2054

DATE 10 FEB 76

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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(XE8L69)

ALPHA ( 2 ) = .010 BETA ( 2 ) = .177  
AMES 11-073(0A148) -14QA/B/C ORB LEFT WING BOT

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.775  
.798  
.808  
.834  
.839  
.850  
.857  
.862  
.865  
.873  
.900  
.905  
.919  
.930  
.933  
.945  
.945  
1.000  
-.2631  
-.3282  
-.4524  
-.4740  
-.3989  
-.4646  
-.4515  
-.4353  
-.4347  
-.9205  
-.9178  
-.4519  
-.4084  
-.5486  
-.5029  
-.5428  
-.8134  
-.8040  
-.2380  
-.2761  
-.9178  
-.9205  
-.5281  
-.4347  
-.4515  
-.3665  
-.4524  
-.3282  
-.3231  
-.2375  
-.3079  
-.4439

ALPHA ( 2 ) = .007 BETA ( 3 ) = .253 MACH = .90190 Q = 601.65 P = 1056.6 RN/L = 3.6047

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.010  
.020  
.040  
.050  
.059  
.080  
.081  
.095  
.094  
.152  
.157  
.163  
.177  
.229  
.245  
.250  
.271  
.345  
.390  
-.0076  
-.0076  
-.0875  
-.0875  
-.1045  
-.1258  
-.0141  
-.0180  
-.1443  
-.0670  
-.1577  
-.1810  
-.2176  
-.3198  
-.1050  
-.1043  
-.0500  
-.0603  
-.0932  
-.1274  
-.1774  
-.2096  
-.2618  
-.0775  
-.2252  
-.3184  
-.3654  
-.2577  
-.3821  
-.4483  
-.5355  
-.3254  
-.5740  
-.6034  
-.5189  
-.6653  
-.3011  
-.2347  
-.1579



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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 ,

PAGE 2826

(XEBL69)

AMES 11-073(0A148) -140A/B/C ORB LEFT WING BOT

ALPHA ( 2 ) = .007 BETA ( 3 ) = 4.253

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.400  
.402  
.503  
.550  
.565  
.600  
.637  
.650  
.670  
.700  
.725  
.750  
.760  
.775  
.798  
.808  
.834  
.839  
.850  
.857  
.862  
.865  
.873  
.900  
.905  
.919  
.940  
.943  
.945  
.965  
1.000-.1345  
-.0941  
-.2184  
-.8799  
-.2024  
-.3150  
-.3193  
-.3117  
-.5112  
-.7924  
-.2580  
-.7922  
-.2580  
-.8850  
-.4387  
-.3885  
-.4760  
-.4648  
-.3389-.2240  
-.2000  
-.2843  
.6692  
-1.0324

ALPHA ( 3 ) = 4.005 BETA ( 1 ) = -3.869 MACH = .90083 0 = 600.78 P = 1057.6 RN/L = 3.5915

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.010  
.020  
.020  
.020  
.0587  
.063  
.063  
.080  
.1201  
.1659  
.1954  
.3952  
.3376  
.1641  
-.0946  
-.0353  
-.0441  
-.0138  
-.0056  
-.0538  
-.1081  
-.0156  
-.0328  
-.1245  
-.1037  
-.0647  
-.1605  
-.0410

ALPHA ( 3 ) = 4.005 BETA ( 1 ) = -3.869

SECTION ( : LEFT WING BOT SURF

2Y/5Y	.299C	.3640	.4270	.5340	.6730	.7800	.887Q	.9720
-------	-------	-------	-------	-------	-------	-------	-------	-------

X/Ci

.081	.0625					
.086	.2287					
.094	.0579					
.150						
.157						
.163	.1909					
.171						
.229	.0217					
.246						
.250	.0341					
.274						
.345						
.380	.0225					
.400						
.422						
.503						
.550						
.565						
.600						
.637						
.650						
.670						
.700						
.725						
.750						
.760						
.775						
.799						
.809						
.837						
.839						
.860						
.867						
.882						
.892						
.900						
.905						
.910						
.913						
.915						
.917						
.920						
.922						
.924						
.926						
.928						
.930						
.932						
.934						
.936						
.938						
.940						
.942						
.944						
.946						
.948						
.950						
.952						
.954						
.956						
.958						
.960						
.962						
.964						
.966						
.968						
.970						
.972						
.974						
.976						
.978						
.980						
.982						
.984						
.986						
.988						
.990						
.992						
.994						
.996						
.998						
1.000						

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TABULATED PRESSURE DATA - OA148 ( AMES 11-073-1 )

**PAGE 282B**

ALPHA ( 3 ) = 4.002      BETA ( 2 ) = .179      MACH = .90083      Q = 600.78      P = 1057.6      RN/L = 3.5915  
(XEBL69)

SECTION 1 LEFT WING BOT SURF

SECTION ( 1 ) LEFT WING BOT SURF	DEPENDENT VARIABLE CP
2Y/BW	.2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

**MJ/K**

-.010	-.0740	.0021	.3651	.1739	.0726	.1413	.1383
.020	.0000	.0982	.3433	.0529	.0360	.0213	-.0062
.040		.1353	.2068				-.1959
.050	.0219			.0216	-.0193	-.0319	-.0526
.069							-.2313
.080			.0927	.0042			
.081		.2117					
.095							
.094	.0400			.0135	-.0056	-.0206	-.0954
.150							-.2027
.157							
.163		.2095					
.229			.0374				
.245	.0894						
.250		.0569					
.274				.0047	-.0339	-.0565	-.1280
.345			.0216				
.390		.0354					-.2645
.400							
.422			.0067	-.0301	-.0451		-.1460
.503							-.3125
.550				-.1338	-.1568		
.555		-.9673					
.600							
.637							
.650	-.1241						-.3160
.670							
.700						-.3042	-.6050
.725				-.2447	-.2987		
.750							
.760							
.775			-.1482			-.6837	-.9460
.798				-.5019	-.8216		
.808	-.1758						
.834		-.8084					
.859	-.2225						
.860							
.857							
.852			-.4160				
.855				-.3872	-.5131	-.4618	-.2655
.879	-.4061						
.900							
.905	-.5044			-.4203			-.3920
.919		-.4085					
	-.3296						



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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 2830

(XEBL69)

ALPHA ( 3 ) = 4.006 BETA ( 3 ) = 4.240  
 SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/B4 .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CM

.775  
 .798  
 .808  
 .834  
 .839  
 .850  
 .857  
 .862  
 .865  
 .879  
 .900  
 .905  
 .919  
 .950  
 .953  
 .955  
 .965  
 1.000

- .5152 - .6960

- .7966

- .2217

- .8875

- .4038

- .3866 - .4946 - .4588

- .2821

- .8621

- .4069

- .5313

- .3238

- .4045

- .4085

- .4294

- .3530 - .3508

- .4031

- .2981

- .3063

- .2797

- .2227

- .2348

ALPHA ( 4 ) = 7.976 BETA ( 1 ) = -3.869 MACH = .89993 Q = 600.24 P = 1058.8 RN/L = 3.5857

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/B4 .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CM

.010  
 .020  
 .040  
 .050  
 .069  
 .080  
 .096  
 .094  
 .150  
 .157  
 .163  
 .177  
 .229  
 .246  
 .253  
 .274  
 .345  
 .390

- .1646

- .1913

.0000

.0501

.1259

.3809

.2731

.2699

.2605

.2488

.2224

.2646

.2878

.0825

.3308

.1896

.1887

.1581

.1467

.1241

.1044

.0299

.1531

.1507

.1876

- .1987

.1003

.4670

.3592

.2756

.2488

.1987

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 2831

(XEBL68)

ALPHA ( 4 ) = 7.976 BETA ( 1 ) = -3.869

AMES 11-073(0A148) -140A/8/C ORB LEFT WING BOT

SECTION ( 1 ) LEFT WING BOT SURF

2Y/B	.2990	.3540	.4270	.5340	.6730	.7800	.8870	.9720
X/C	.400	.402	.503	.550	.565	.600	.637	.650
	.402	.503	.550	.565	.600	.637	.650	.670
	.503	.550	.565	.600	.637	.650	.670	.700
	.550	.565	.600	.637	.650	.670	.700	.725
	.565	.600	.637	.650	.670	.700	.725	.750
	.600	.637	.650	.670	.700	.725	.750	.775
	.637	.650	.670	.700	.725	.750	.775	.800
	.650	.670	.700	.725	.750	.775	.800	.825
	.670	.700	.725	.750	.775	.800	.825	.850
	.700	.725	.750	.775	.800	.825	.850	.875
	.725	.750	.775	.800	.825	.850	.875	.900
	.750	.775	.800	.825	.850	.875	.900	.925
	.775	.800	.825	.850	.875	.900	.925	.950
	.800	.825	.850	.875	.900	.925	.950	.975
	.825	.850	.875	.900	.925	.950	.975	1.000

2Y/B	.2990	.3540	.4270	.5340	.6730	.7800	.8870	.9720
X/C	.400	.402	.503	.550	.565	.600	.637	.650
	.402	.503	.550	.565	.600	.637	.650	.670
	.503	.550	.565	.600	.637	.650	.670	.700
	.550	.565	.600	.637	.650	.670	.700	.725
	.565	.600	.637	.650	.670	.700	.725	.750
	.600	.637	.650	.670	.700	.725	.750	.775
	.637	.650	.670	.700	.725	.750	.775	.800
	.650	.670	.700	.725	.750	.775	.800	.825
	.670	.700	.725	.750	.775	.800	.825	.850
	.700	.725	.750	.775	.800	.825	.850	.875
	.725	.750	.775	.800	.825	.850	.875	.900
	.750	.775	.800	.825	.850	.875	.900	.925
	.775	.800	.825	.850	.875	.900	.925	.950
	.800	.825	.850	.875	.900	.925	.950	.975
	.825	.850	.875	.900	.925	.950	.975	1.000

2Y/B	.2990	.3540	.4270	.5340	.6730	.7800	.8870	.9720
X/C	.400	.402	.503	.550	.565	.600	.637	.650
	.402	.503	.550	.565	.600	.637	.650	.670
	.503	.550	.565	.600	.637	.650	.670	.700
	.550	.565	.600	.637	.650	.670	.700	.725
	.565	.600	.637	.650	.670	.700	.725	.750
	.600	.637	.650	.670	.700	.725	.750	.775
	.637	.650	.670	.700	.725	.750	.775	.800
	.650	.670	.700	.725	.750	.775	.800	.825
	.670	.700	.725	.750	.775	.800	.825	.850
	.700	.725	.750	.775	.800	.825	.850	.875
	.725	.750	.775	.800	.825	.850	.875	.900
	.750	.775	.800	.825	.850	.875	.900	.925
	.775	.800	.825	.850	.875	.900	.925	.950
	.800	.825	.850	.875	.900	.925	.950	.975
	.825	.850	.875	.900	.925	.950	.975	1.000

ALPHA ( 4 ) = 7.978 BETA ( 2 ) = .182 MACH = .89993

P = 600.24

Q = 1058.8

R/V/L = 3.5857

SECTION ( 1 ) LEFT WING BOT SURF

DEPENDENT VARIABLE CP

2Y/B	.2990	.3540	.4270	.5340	.6730	.7800	.8870	.9720
X/C	.400	.402	.503	.550	.565	.600	.637	.650
	.402	.503	.550	.565	.600	.637	.650	.670
	.503	.550	.565	.600	.637	.650	.670	.700
	.550	.565	.600	.637	.650	.670	.700	.725
	.565	.600	.637	.650	.670	.700	.725	.750
	.600	.637	.650	.670	.700	.725	.750	.775
	.637	.650	.670	.700	.725	.750	.775	.800
	.650	.670	.700	.725	.750	.775	.800	.825
	.670	.700	.725	.750	.775	.800	.825	.850
	.700	.725	.750	.775	.800	.825	.850	.875
	.725	.750	.775	.800	.825	.850	.875	.900
	.750	.775	.800	.825	.850	.875	.900	.925
	.775	.800	.825	.850	.875	.900	.925	.950
	.800	.825	.850	.875	.900	.925	.950	.975
	.825	.850	.875	.900	.925	.950	.975	1.000

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(XEBL69)

AMES 11-073(0A148) -140A/B/C ORB LEFT WING BOT

ALPHA ( 1 ) = 7.978 BETA ( 2 ) = .182

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW .2930 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.081	.2691						
.086	.2186						
.094	.0264		.1808	.1771	.1628	.0784	-.2304
.150		.3115					
.157							
.163		.1926					
.177							
.229	.1236						
.246		.1806	.1389	.1246	.0927	.0035	
.274			.1511				-.2757
.345		.1459					
.370			.0745	.0601		-.0670	
.400		.1088					-.3112
.422			-.0435	-.0696			
.433		-.6657					
.450							
.455							
.460							
.477							
.490							
.500							
.503							
.506							
.509							
.512							
.515							
.518							
.521							
.524							
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.551							
.554							
.557							
.560							
.563							
.566							
.569							
.572							
.575							
.578							
.581							
.584							
.587							
.590							
.593							
.596							
.599							
.602							
.605							
.608							
.611							
.614							
.617							
.620							
.623							
.626							
.629							
.632							
.635							
.638							
.641							
.644							
.647							
.650							
.653							
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.662							
.665							
.668							
.671							
.674							
.677							
.680							
.683							
.686							
.689							
.692							
.695							
.698							
.701							
.704							
.707							
.710							
.713							
.716							
.719							
.722							
.725							
.728							
.731							
.734							
.737							
.740							
.743							
.746							
.749							
.752							
.755							
.758							
.761							
.764							
.767							
.770							
.773							
.776							
.779							
.782							
.785							
.788							
.791							
.794							
.797							
.800							
.803							
.806							
.809							
.812							
.815							
.818							
.821							
.824							
.827							
.830							
.833							
.836							
.839							
.842							
.845							
.848							
.851							
.854							
.857							
.860							
.863							
.866							
.869							
.872							
.875							
.878							
.881							
.884							
.887							
.890							
.893							
.896							
.899							
.902							
.905							
.908							
.911							
.914							
.917							
.920							
.923							
.926							
.929							
.932							
.935							
.938							
.941							
.944							
.947							
.950							
.953							
.956							
.959							
.962							
.965							
.968							
.971							
.974							
.977							
.980							
.983							
.986							
.989							
.992							
.995							
.998							
1.001							

REPRODUCIBILITY OF THE  
ORIGINAL PAGE IS POOR

DATE 10 FEB 76

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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ALPHA ( 4 ) = 7.27 BETA ( 3 ) = 4.241 MACH = .8993 Q = 600.24 P = 1058.8 RN/L = 3.5957  
 (XEBL69)

SECTION 1 : LEFT WING BOT SURF

2Y/DX .2940 .3640 .4270 .5340 .6730 .7800 .8870 .9720  
 X/CW

2Y/DX	X/CW	DEPENDENT VARIABLE CP	Q	P	RN/L
.010					
.020					
.030					
.040					
.050					
.060					
.070					
.080					
.090					
.100					
.110					
.120					
.130					
.140					
.150					
.160					
.170					
.180					
.190					
.200					
.210					
.220					
.230					
.240					
.250					
.260					
.270					
.280					
.290					
.300					
.310					
.320					
.330					
.340					
.350					
.360					
.370					
.380					
.390					
.400					
.410					
.420					
.430					
.440					
.450					
.460					
.470					
.480					
.490					
.500					
.510					
.520					
.530					
.540					
.550					
.560					
.570					
.580					
.590					
.600					
.610					
.620					
.630					
.640					
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.860					
.870					
.880					
.890					
.900					
.910					
.920					
.930					
.940					
.950					
.960					
.970					
.980					
.990					
1.000					







DATE 10 FEB 76 TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )  
 ALPHA ( 5 ) = 11.955 BETA ( 2 ) = .189  
 AMES 11-073(0A148) -140A/B/C ORB LEFT WING BOT (XEBL69)

SECTION ( 1 ) LEFT WING BOT SURF	DEPENDENT VARIABLE CP				
2Y/BW .2990 .3540 .4270 .5340 .6730 .7800 .8870 .9720					
X/CW					
.400	.1653	.1543	.0246		
.402	.1987				
.503					
.550	.0381	.0090			
.585					
.600					
.647					
.650	.0405				
.670					
.700					
.725					
.750					
.760					
.775					
.798					
.808					
.844					
.839					
.850					
.857					
.852					
.855					
.873					
.900					
.905					
.919					
.950					
.953					
.955					
.965					
1.000					

SECTION ( 1 ) LEFT WING BOT SURF	DEPENDENT VARIABLE CP				
2Y/BW .2990 .3540 .4270 .5340 .6730 .7800 .8870 .9720					
X/CW					
.400	.1653	.1543	.0246		
.402	.1987				
.503					
.550	.0381	.0090			
.585					
.600					
.647					
.650	.0405				
.670					
.700					
.725					
.750					
.760					
.775					
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.808					
.844					
.839					
.850					
.857					
.852					
.855					
.873					
.900					
.905					
.919					
.950					
.953					
.955					
.965					
1.000					

DATE 10 FEB 75

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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(XEBL69)

AMES 11-073(0A148) -140A/B/C ORB LEFT WING BOT

ALPHA ( 5' ) = 11.948 BETA ( 3' ) = 4.260

SECTION ( 1' LEFT WING BOT SURF	DEPENDENT VARIABLE CP		
2Y/8X	2990	3640	4270
X/CW			
.091			.3290
.096		.1023	
.094	-.0657		
.150		.2	.2920
.157			.2745
.163			.1717
.177			
.229	.1045		
.245		.3094	.2651
.250			
.274		.2375	.2364
.345			.2273
.390			.2121
.400			.1902
.402			.0892
.503		.2241	
.550			.1470
.565			.1347
.600			-.0045
.647			-.0023
.650			-.3110
.670			
.700			-.6001
.705			
.75			.0292
.760			
.775			-.1628
.798			-.1536
.803			-.8570
.874			-.9413
.830			
.830			-.9036
.830			-.9299
.830			
.830			-.1710
.830			-.1548
.830			-.10180
.830			
.830			-.8984
.830			
.830			-.6155
.830			-.7070
.830			-.10118
.830			
.830			-.8302
.830			
.830			-.6384
.830			
.830			-.7435
.830			
.830			-.5073
.830			
.830			-.5277
.830			
.830			-.4842
.830			
.830			-.5016
.830			-.4623
.830			-.5702
.830			
.830			-.3705
.830			
.830			-.3759
.830			
.830			-.2221
.830			
.830			-.3529
.830			
.830			-.5075

DATE 10 FEB 76

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C ORB LEFT WING BOT

(XEBL70) 05 AUG 75 )

## REFERENCE DATA

SREF = 2590.0000 SQ.FT.  
 LREF = 474.8000 IN.  
 BREF = 936.0680 IN.  
 SCALE = .0300

XMRP = 1076.5800 IN. XO  
 YMRP = .0000 IN. YO  
 ZMRP = 375.0000 IN. ZO

## PARAMETRIC DATA

RUDDER = .000 SPOE-K = 55.000  
 BDFLAP = 22.500 L-ELVN = -10.000  
 R-ELVN = -10.000 MAC = .600

ALPHA ( 1 ) = -3.949 BETA ( 1 ) = -7.852 MACH = .59856 0 = 594.81 P = 2387.0 RN/L = 4.8517

## SECTION ( 1 ) LEFT WING BOT SURF

## DEPENDENT VARIABLE CP

2Y/8W .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

## X/CW

.010	-.3150	-.7055	-1.1788	-2.0902	-1.7182	-1.6205	-1.4637
.020	.0000	-.6216	-1.2394	-1.8723	-1.6193	-1.3147	-1.3076
.040	-.2573	-.5723	-1.0512	-1.0354	-1.2456	-1.2073	-1.1429
.060							-1.1282
.080							
.100							
.120							
.140							
.160							
.180							
.200							
.220							
.240							
.260							
.280							
.300							
.320							
.340							
.360							
.380							
.400							
.420							
.440							
.460							
.480							
.500							
.520							
.540							
.560							
.580							
.600							
.620							
.640							
.660							
.680							
.700							
.720							
.740							
.760							
.780							
.800							
.820							
.840							
.860							
.880							
.900							
.920							
.940							
.960							
.980							
.990							

DATE 10 FEB 76

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C ORB LEFT WING BOT

(XEBL70)

ALPHA ( 1 ) = -3.949 BETA ( 1 ) = -7.852

SECTION ( 1 ) LEFT WING BOT SURF	DEPENDENT VARIABLE CP
2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720	

X/CW	
.857	-.3669
.862	
.865	
.879	-.3177
.900	-.3064
.905	-.2669
.919	-.2154
.950	-.1728
.953	-.2609
.955	-.3804
.965	-.1279
1.000	-.0729

-.7211

-.2947

-.1419

-.1017

ALPHA ( 1 ) = -3.933 BETA ( 2 ) = -3.843 MACH = .59666 Q = 594.81 P = 2387.0 RV/L = 4.8517

SECTION ( 1 ) LEFT WING BOT SURF	DEPENDENT VARIABLE CP
2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720	

X/CW	
.2033	-.4626
.2000	-.9117
.040	-.4115
.050	-.3775
.069	-.8216
.080	-.9243
.081	-.1069
.085	-.1764
.094	-.7020
.140	-.5609
.157	-.2584
.163	
.177	-.3076
.229	-.3766
.246	-.3476
.250	
.274	-.2886
.345	-.3258
.330	-.3892
.400	-.4319
.402	-.2649
.423	-.2217
.450	-.2911
.465	-.3635
.500	-.2997
.505	-.3286
.500	-.1924

-.4941

-.3635

-.5427

-.4656

DATE 10 FEB 76

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 2840

(XEBL70)

AMES 11-07310A148) -140A/B/C O:3 LEFT WING BOT

ALPHA ( 1 ) = -3.933 BETA ( 2 ) = -3.843

SECTION ( 1 ) LEFT WING BOT SURF

DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.637	-.2699						
.650				-.4406			-.7603
.670							
.700				-.4681			
.725				-.3575			
.750							
.760							
.775							
.798							
.808							
.834							
.839							
.850							
.857							
.862							
.865							
.879							
.900							
.925							
.919							
.950							
.953							
.955							
.965							
1.000							

ALPHA ( 1 ) = -3.929 BETA ( 3 ) =

.189 MACH = .59666

Q

= 594.81

P

= 2387.0

6N/L = 4.8517

SECTION ( 1 ) LEFT WING BOT SURF

DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.010							
.020							
.040							
.050							
.069							
.080							
.081							
.085							
.094							
.150							
.157							
.163							

DATE 10 FEB 76

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

(XEBL70)

ALPHA ( 1 ) = -3.929 BETA ( 3 ) = .189

SECTION : LEFT WING BOT SURF

**DEPENDENT VARIABLE CP**

AMES 11-073(OA148) -140A/B/C ORB LEFT WING BOT

2Y/3W	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
-------	-------	-------	-------	-------	-------	-------	-------	-------

X/CW

[illegible]





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TABULATED PRESSURE DATA - 0A148 ( AMES 11-0'3-1 )

PAGE 2843

(XEBL70)

AMES 11-073(0A148) -140A/B/C ORB LEFT WING BOT

ALPHA ( 1 ) = -3.935 BETA ( 4 ) = 4.269

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/B4 .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.950 -.5128 -.2337 -.1598

.953 -.2802

.955 -.1793

.965 -.2919

1.000 -.1148

-.1093

-.1279

ALPHA ( 1 ) = -3.949 BETA ( 5 ) = 8.334 MACH = .59666 Q = 594.81 P = 2387.0 RNL = 4.8517

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/B4 .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.010 -.0259 .0025 -.1761 -1.1582 -1.4413 -1.9309 -1.9232

.020 .0000 -.0050 -.0259 -.9423 -1.0899 -1.2895 -1.7022

.040 .0087 -.2971

.050 -.0328

.060 .0028

.070 .0028

.080 .0028

.090 .0028

.100 .0028

.110 .0028

.120 .0028

.130 .0028

.140 .0028

.150 .0028

.160 .0028

.170 .0028

.180 .0028

.190 .0028

.200 .0028

.210 .0028

.220 .0028

.230 .0028

.240 .0028

.250 .0028

.260 .0028

.270 .0028

.280 .0028

.290 .0028

.300 .0028

.310 .0028

.320 .0028

.330 .0028

.340 .0028

.350 .0028

.360 .0028

.370 .0028

.380 .0028

.390 .0028

.400 .0028

.410 .0028

.420 .0028

.430 .0028

.440 .0028

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.460 .0028

.470 .0028

.480 .0028

.490 .0028

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.940 .0028

.950 .0028

.960 .0028

.970 .0028

.980 .0028

.990 .0028

1.000 .0028

DATE 10 FEB 76

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

(XEBL70)

AMES 11-073(0A148) - 140A/B/C ORB LEFT WING BOT

ALPHA ( 1 ) = -3.949 BETA ( 5 ) = 8.334

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.775 -.3839 -.4087 -.5136

.798

.608 -.6694

.874

.473 -.5062

.850 -.3525

.467

.444

.5900

.473

.3339

.3148

.2660

.919

.440

.1777

.3323

.112

.1263

.1143

.59628

MACH = -7.888

Q = .593.87

P = 2385.4

RV/L = 4.8452

1.5258

-.2258

-.3214

-.2308

-.1462

-.2114

-.1777

-.3323

-.112

-.1263

-.1143

.59628

MACH = -7.888

Q = .593.87

P = 2385.4

RV/L = 4.8452

1.5258

-.2258

-.3214

-.2308

-.1462

-.2114

-.1777

-.3323

-.112

-.1263

-.1143

.59628

MACH = -7.888

Q = .593.87

P = 2385.4

RV/L = 4.8452

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.0153 -.0622 -.2163 -1.0491 -1.1195 -1.1879 -1.0616

.0200 -.0858 -.3415 -.9406 -.8689 -.9828 -1.0526

.0400 -.0886 -.4160 -.5763 -.5785 -.6310 -.6400

.0530 -.4446

.0633

.0619

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DATE 10 FEB 76 TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

(XEBL70)

AMES 11-073(0A148) -140A/B/C ORB LEFT WING BOT

ALPHA ( 2 ) = .049 BETA ( 1 ) = -7.888

SECTION : LEFT WING BOT SURF	DEPENDENT VARIABLE CP	
2Y/5W .2990 .3640 .4270 .5340 .6730 .7800 .9870 .9720		
ALPHA ( 2 ) = .049 BETA ( 1 ) = -7.888		
400		
402		
503		
550		
565		
600		
637		
650		
670		
700		
725		
750		
760		
775		
798		
808		
834		
839		
850		
857		
862		
865		
879		
900		
905		
919		
950		
953		
955		
955		
1000		
ALPHA ( 2 ) = .055 BETA ( 2 ) = -3.864 MACH = .59628 Q = 593.97 P = 2386.4 RN/L = 4.8452		
SECTION : LEFT WING BOT SURF	DEPENDENT VARIABLE CP	
2Y/5W .2990 .3640 .4270 .5340 .6730 .7800 .9870 .9720		
400		
402		
503		
550		
565		
600		
637		
650		
670		
700		
725		
750		
760		
775		
798		
808		
834		
839		
850		
857		
862		
865		
879		
900		
905		
919		
950		
953		
955		
955		
1000		

ALPHA ( 2 ) = .055 BETA ( 2 ) = -3.864 MACH = .59628 Q = 593.97 P = 2386.4 RN/L = 4.8452

SECTION : LEFT WING BOT SURF	DEPENDENT VARIABLE CP	
2Y/5W .2990 .3640 .4270 .5340 .6730 .7800 .9870 .9720		
400		
402		
503		
550		
565		
600		
637		
650		
670		
700		
725		
750		
760		
775		
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857		
862		
865		
879		
900		
905		
919		
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955		
955		
1000		

DATE 10 FEB 76

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

(XEBL70)

AMES 11-073(0A148) -140A/B/C ORB LEFT WING BOT

ALPHA ( 2 ) = .056 BETA ( 2 ) = -3.864

X/CW		DEPENDENT VARIABLE CP	
1	2	3	4
.086	.0023	-.2541	
.034			
.150			
.157			
.163			
.177			
.229			
.246			
.250			
.274			
.345			
.390			
.400			
.503			
.550			
.566			
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.637			
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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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ALPHA 21 = .055 BETA ( 3 ) = .180 MACH = .59628 Q = 593.97 P = 2386.4 RN/L = 4.8452  
(XEBL70)

SECTION 1: LEFT WING BOT SURF

DEPENDENT VARIABLE CP

ORB LEFT WING BOT

21 BW	.2930	.3540	.4270	.5340	.6730	.7800	.8870	.9720
X/C								
.010	.0094	.0511	.0506	-.6310	-.7874	-.8453	-.8307	
.020	.0000	.0491	-.0422	-.6050	-.6231	-.7162	-.8405	-.3063
.040		.0559	-.1775					
.050	-.0081			-.3819	-.4205	-.5027	-.5402	-.2552
.060				-.3089				
.080								
.090								
.100	-.0196	.0526						
.120				-.2119	-.2370	-.2569	-.2897	-.2123
.140		-.0282						
.160			-.1571					
.180	-.0070							
.200		-.1429		-.1543	-.2066	-.2356	-.2417	
.220			-.1409					-.2372
.240		-.1184		-.1624	-.1815		-.2239	
.260			-.1217					-.3167
.280				-.2318	-.2579			
.300		-.2257					-.3619	
.320			-.2119			-.3620		-.3977
.340				-.3246				
.360					-.4209			
.380		-.3204				4.6210	-.6000	
.400			-.3797	-.5887	-.5392			
.420				-.7395				
.440	-.3110							
.460		-.5131		-.4826	-.4209	-.3910		
.480			-.3740					-.2593
.500								
.520		-.3449						
.540			-.4074				-.2272	
.560				-.2903				
.580		-.2439						

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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(XEBL70)

ALPHA ( 2 ) = .058 BETA ( 3 ) = .180 AMES 11-073(0A148) -140A/B/C ORB LEFT WING BOT

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

246W .2330 .3640 .4270 .5340 .6730 .7800 .8870 .9720

4/CW  
.950  
.953  
.955  
.955  
1.030

-.2778 -.2626 -.1379

-.1732

-.1555

-.2069

-.0856

-.0749

-.0822

ALPHA ( 2 ) = .056 BETA ( 4 ) = 4.251 MACH = .59628 Q = 593.97 P = 2386.4 RVL = 4.8452

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

246W .2990 .3540 .4270 .5340 .6730 .7800 .8870 .9720

4/CW  
.910  
.920  
.930  
.940  
.950  
.960  
.970  
.980  
.990  
1.000

-.0243 .1229 -.4366 -.5725 -.6253 -.6128  
.0300 .0559 -.4457 -.4672 -.5601 -.6497  
.0120 -.0723 -.0618 -.2311 -.3431 -.4033 -.4459  
-.0108 -.0791 -.1327 -.2457 -.2145

-.2145

-.2457

-.1327

-.0791

-.0108

-.1745

-.1984

-.2146

-.2628

-.2026

-.1261

-.0044

-.1120

-.0995

-.2099

-.1103

-.1425

-.1840

-.2089

-.2213

-.1461

-.1676

-.2100

-.2099

-.2100

-.2316

-.2162

-.2436

-.2889

-.2889

-.2053

-.3464

-.3551

-.3544

-.3544

-.3129

-.4057

-.6317

-.5734

-.5734

REPRODUCIBILITY OF THE  
ORIGINAL PAGE IS POOR

(XEBL70)

ORB LEFT WING BOT

TABULATED PRESSURE DATA - OAI48 ( AMES 11-073-1 )

AMES 11-073(OAI48) -140A/B/C

ALPHA ( 2 ) = .055 BETA ( 4 ) = 4.251

SECTION / INLET WING BOT SURF DEPENDENT VARIABLE CP

24754 .2930 .3543 .4270 .5340 .6730 .7800 .8870 .9720

X/CW .775 -.4836 -.5231

.798 -.3725 -.7239

.824 -.3201 -.5004

.850 -.3632 -.3707

.875 -.3497 -.2052

.900 -.3728 -.3006

.925 -.2579 -.2832

.950 -.1730 -.1286

.975 -.1684 -.0546

1.000 -.2709 -.0948

ALPHA ( 2 ) = .051 BETA ( 5 ) = 6.306 MACH = .59628 0 = 593.97 P = 2385.4 RN/L = 4.8452

SECTION / INLET WING BOT SURF DEPENDENT VARIABLE CP

24754 .2930 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW .010 -.1048 .1778 -.2327 -.4032 -.4490 -.4586

.020 .0200 .1343 -.2901 -.3437 -.4302 -.5063

.030 .0408 .0392 -.2010 -.2626 -.3204 -.3679

.040 .0600 .0680 -.1805

.050 .0224 -.0726

.060 .0224 -.1145 -.1661 -.1977 -.2376

.070 .0550 -.0327

.080 .0224 -.1221 -.1600 -.1889 -.2084

.090 .0224 -.1034

.100 .0224 -.0845

.110 .0224 -.1930



**!XEBL 7D!**

$$A_{-F+A}(2) = .05; \quad BETA(5) = 8.396$$

	SECTION C - LEFT WING BOT SURF	DEPENDENT VARIABLE CP
2X08A	.2993	.6730
2X08B	.3640	.7800
2X08C	.4270	.8870
2X08D	.5340	.9720

[illegible]

SECTION	INLET	WING	BOT	SURF	DEPENDENT VARIABLE CP			
248W	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X06W								
.010	.0787	.1458	.2957	-.0834	-.1012	.0075	.0529	
.020	.0000	.1380	.1978	-.1055	-.1072	-.1101	-.1055	-.0105
.040		.1513	-.0013					
.050	.0555			-.1498	-.1386	-.1283	-.1117	
.059								-.0464
.080				-.1292				

DATE 10 FEB 76 TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )  
 AMES 11-073(0A148) -140A/B/C ORB LEFT WING BOT

(XEBL7D)

SECTION ( LEFT WING BOT SURF	DEPENDENT VARIABLE CP	
2V/EN	.2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720	
ALPHA ( 3 ) = 4.000 BETA ( 1 ) = -7.898		
X/CW		
.091	-.0526	
.095	.1432	
.097		-.0722
.150		-.0712
.157		-.0622
.163	.0680	-.0922
.177		-.1407
.223	-.0505	
.248		
.250		
.274	-.0522	
.345	-.0412	
.390		-.0503
.400		-.0825
.402	-.0767	-.0956
.503	-.0896	-.1077
.550		
.565	-.1669	-.1385
.600	-.1982	
.637	-.2952	
.651		-.3290
.670	-.1679	
.700		-.3344
.725		
.750	-.3145	
.775		-.7308
.799	-.6768	-.6665
.808	-.5463	
.834	-.2971	
.839	-.7452	
.850		
.857	-.4780	
.882	-.3623	
.885		-.4857
.893		-.4276
.905		-.3318
.913		
.950	-.3276	
.953		-.1886
.957	-.2274	
.960		
.963	-.1547	-.3313
.965	-.0869	
.968	-.1171	
.971	-.0912	
.973	-.0205	
.975	-.0346	
.977		.0065
.979		
.981		
.983		
.985		
.987		
.989		
.991		
.993		
.995		
.997		
.999		

-.1949

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## TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 2852

ALPHA ( 3 ) = 4.002 BETA ( 2 ) = -3.861 MACH = .59578 Q = 593.03 P = 2386.8 RN = 4.8456  
 (XEBL70)

## SECTION 1 LEFT WING BOT SURF

2X.8W .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720  
 DEPENDENT VARIABLE CP

## X/CW

.010	.0223	.0779	.3147	.0173	-.0179	.0872	.0934
.020	.0000	.1148	.2508	-.0931	-.0427	-.0520	-.0517
.030	.0404	.1370	.0832	-.0739	-.0884	-.0804	-.0777
.040	.0693	.0880	-.0746	-.0746			-.0832
.050	.0911	.1592	-.0061				
.060	.0412			-.0519	-.0494	-.0505	-.0880
.070	.1065						-.1508
.080	.0523	-.0239	-.0253				
.090		-.0315	-.0408	-.0702	-.0849	-.1070	
.100	-.0277	-.0734	-.0911			-.1430	-.1566
.110		-.0419	-.1685	-.1961			-.2686
.120		-.2630					
.130	-.1586					-.3207	
.140					-.3365		-.3469
.150			-.3081	-.3977			
.160		-.2388	-.6378	-.5495			
.170	-.3628	-.7413					
.180	-.2904	-.4956	-.4951	-.4340	-.3483		
.190		-.3641					-.1701
.200	-.5315	-.3163					
.210	-.3449		-.3671			-.2004	
.220		-.2522					
.230	-.2155						



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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 2854

(XEBL70)

AMES 11-073(0A148) -140A/B/C ORB LEFT WING BOT

ALPHA ( 3 ) = 4.000 BETA ( 3 ) = .182

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW .2990 .3610 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.775							
.798							
.808							
.834							
.839							
.850							
.857							
.862							
.865							
.879							
.900							
.905							
.919							
.950							
.953							
.965							
.965							
1.000							

ALPHA ( 3 ) = 4.003 BETA ( 4 ) = 4.239 MACH = .59578 Q

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW .2990 .3540 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.310							
.320							
.320							
.340							
.350							
.359							
.360							
.386							
.394							
.450							
.457							
.453							
.477							
.489							
.496							
.500							
.515							
.540							

RN/L = 4.8458

P = 2386.8

P

593.03

Q

MACH = .59578

MACH

4.239

BETA ( 4 ) = 4.239

BETA ( 4 )

4.003

ALPHA ( 3 ) = 4.003

ALPHA ( 3 )

ALPHA ( 3 )

ALPHA ( 3 )



DATE 10 FEB 76 TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 ) (XEBL70)

ALPHA ( 3 ) = 4.009 BETA ( 5 ) = 8.292

SECTION : 11 LEFT WING BOT SURF		DEPENDENT VARIABLE CP	
2Y/BW			
.2990	.3640	.4270	.5340 .6730 .7800 .8870 .9720
X/CM			
.091		.0778	
.095	.0596		
.094	-.0740	-.0065	-.0110 -.0248 -.0877
.100			-.2284
.101	.1263	.0227	
.103			
.105	.0005	.0082	
.106		-.0080	-.0231 -.0489 -.0724 -.1164
.107		-.0138	-.2241
.108		-.0458	-.0783 -.0923 -.1614
.109		-.3029	-.1616 -.1907
.110			-.2924
.111	-.1425		-.3153
.112			
.113			-.3275
.114		-.2955	-.3718
.115			-.6666 -.5868
.116		-.3136	-.6392 -.4910
.117	-.3592	-.7051	
.118			
.119	-.3130	-.5144	-.4464 -.3572 -.3519
.120		-.3581	-.1103
.121	-.5846		
.122	-.3593	-.2945	-.1564
.123	-.3338	-.2630	
.124		-.2686	-.1728 -.1570 -.1019
.125		-.1526	
.126	-.1632		
.127	-.3489	-.0536	-.0442
.128			-.0027

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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(XEBL70)

AMES 11-073(0A148) -140A/B/C ORB LEFT WING BQT

ALPHA ( 4 ) = 7.945 BETA ( 1 ) = -7.890

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.950 -.0997 -.2764 -.0866

.953 -.0846

.955 -.0833

.956 -.0668

1.000 .0013 .0136 -.0077

ALPHA ( 4 ) = 7.955 BETA ( 2 ) = -3.860 MACH = .59630 Q = 593.97 P = 2386.4 RN/L = 4.8482

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.950 -.1702 -.2581 .2948 .4382 .4367 .4925 .4568

.953 .0000 -.0209 .3782 .3250 .3630 .3739 .3691 -.2949

.955 .0400 .0531 .3052 .2220 .2336 .2427 .2465 -.1929

.956 .0329 .0531 .3052 .2220 .2336 .2427 .2465 -.1929

.959 .0569 .0820 .1617

.980 .0820 .1617

.981 .0820 .1617

.982 .0820 .1617

.983 .0820 .1617

.984 .0820 .1617

.985 .0820 .1617

.986 .0820 .1617

.987 .0820 .1617

.988 .0820 .1617

.989 .0820 .1617

.990 .0820 .1617

.991 .0820 .1617

.992 .0820 .1617

.993 .0820 .1617

.994 .0820 .1617

.995 .0820 .1617

.996 .0820 .1617

.997 .0820 .1617

.998 .0820 .1617

.999 .0820 .1617

1.000 .0820 .1617

1.001 .0820 .1617

1.002 .0820 .1617

1.003 .0820 .1617

1.004 .0820 .1617

1.005 .0820 .1617

1.006 .0820 .1617

1.007 .0820 .1617

1.008 .0820 .1617

1.009 .0820 .1617

1.010 .0820 .1617

1.011 .0820 .1617

1.012 .0820 .1617

1.013 .0820 .1617

1.014 .0820 .1617

1.015 .0820 .1617

1.016 .0820 .1617

1.017 .0820 .1617

1.018 .0820 .1617

1.019 .0820 .1617



DATE 10 FEB 76 TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

(XEBL70)

AMES 11-073(0A148) -140A/B/C ORB LEFT WING BOT

ALPHA ( 4 ) = 7.955 BETA ( 3 ) = .181

SECTION : 1 LEFT WING BOT SURF DEPENDENT VARIABLE CP

24714 .2930 .3643 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.400 .0083 -.0080 -.0919

.402 .0358

.503 -.3151

.553 -.1069 -.1370

.555 -.2521

.600 -.2974

.602 -.0951

.650 -.2979

.652 -.3473

.700 -.2978

.702 -.3499

.750 -.7092 -.6369

.752 -.3003

.800 -.8196 -.4899

.802 -.3452

.850 -.7853

.852 -.2785

.900 -.5150

.902 -.4656 -.4248 -.3716

.950 -.3584

.952 -.1728

.990 -.5440

.992 -.3345

.994 -.2546

.996 -.2348

.998 -.2401

.999 -.1164 -.1922 -.1050

.999 -.1169

.999 -.1412

.999 -.2323

.999 -.0244

.999 .0091

.999 -.0352

.999 .59630

.999 .593.97 P .2385.4 PN/L .4.8482

SECTION : 1 LEFT WING BOT SURF DEPENDENT VARIABLE CP

24714 .2990 .3643 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.400 -.5257 -.6355 -.0190 .3750 .3603 .3480 .3047

.402 -.3002

.503 -.3082 .1729 .3172 .3220 .3179 .2826

.553 -.2145

.555 -.2228 .2366 .2151 .1977

.600 -.1425

.602 .1697

.650 .1697

.652 .1697

.700 .1697

.702 .1697

.750 .1697

.752 .1697

.800 .1697

.802 .1697

.850 .1697

.852 .1697

.900 .1697

.902 .1697

.950 .1697

.952 .1697

.990 .1697

.992 .1697

.994 .1697

.996 .1697

.998 .1697

.999 .1697

DATE 10 FEB 76 TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )  
 ALPHA ( 4 ) = 7.955 BETA ( 4 ) = 4.234  
 SECTION 1 LEFT WING BOT SURF DEPENDENT VARIABLE CP ORB LEFT WING BOT (XEBL70)

(XEBL70)

AMES 11-073(0A148) -140A/B/C ORB LEFT WING BOT

SECTION 1 LEFT WING BOT SURF	DEPENDENT VARIABLE CP	ORB LEFT WING BOT
24164	.2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720	
X/C4		
.091	.1842	
.086	.0679	
.034		
.150	.1110 .1187 .1152 .0388	-.2815
.157		
.163	.1973	
.177	.1174	
.223	.0346	
.245	.0926	
.250		
.274	.0748	
.345		-.2744
.390	.0681	
.400		
.402	.0005 -.0137	-.1053
.503		-.3515
.540	-.1090 - .1381	
.565		
.600	-.2789	-.3013
.637		
.652	-.0931	-.2969
.670		-.3644
.670		
.700	-.2977	
.725		
.750	-.3328	
.760		
.775	-.6831 -.6381	
.799	-.3080	
.808	-.6270 -.4340	
.834	-.7826	
.839		
.857	-.2878	
.857	-.5218	
.862	-.4510 -.3976 -.3640	-.1813
.865	-.3589	
.865		
.879	-.5670	
.879	-.3507	
.910	-.2330	-.1827
.910	-.2457	
.915		
.915	-.2611	
.920	-.1237 -.2015 -.1124	
.920		
.925	-.1269	
.925		
.945	-.1520	
.945		
.950	-.3024	-.0276
.950	-.0313	-.0254







DATE 10 FEB 78 TABULATED PRESSURE DATA - 0A148 (AMES 11-073-1) (XCEL 70)

ALPHA (5) = 11.9+2 BETA (2) = -3.851

SECTION 1: LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BK .2890 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW .400 .402 .503 .550 .600 .677 .700 .725 .750 .760 .775 .790 .808 .834 .839 .850 .857 .862 .865 .873 .880 .885 .890 .895 .898 .900 .905 .910 .915 .920 .925 .930 .935 .940 .945 .950 .955 .960 .965 .970 .975 .980 .985 .990 .995 .998 .999

.1042 .0927 .0031

-.3131

-.0271 -.0613

-.2851

-.0287

-.2471

-.3790

-.2937

-.2554

-.6795 -.6361

-.2701

-.8472 -.4283

-.3040

-.7782

-.2381

-.4761

-.3413

-.4209 -.4052 -.3614

-.2735

-.4895

-.3102

-.2192

-.2099

-.2126

-.0915 -.2311 -.0984

-.0357

-.1165

-.0095

-.0226

-.0425

.182 MACH = .9352+ C = 593.15 P = 2386.7 RN = 4.8434

SECTION 2: LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BK .2890 .3640 .4270 .5340 .6730 .7800 .8870 .9720

.1042 .0927 .0031

-.3131

-.0271 -.0613

-.2851

-.0287

-.2471

-.3790

-.2937

-.2554

-.6795 -.6361

-.2701

-.8472 -.4283

-.3040

-.7782

-.2381

-.4761

-.3413

-.4209 -.4052 -.3614

-.2735

-.4895

-.3102

-.2192

-.2099

-.2126

-.0915 -.2311 -.0984

-.0357

-.1165

-.0095

-.0226

-.0425

.182 MACH = .9352+ C = 593.15 P = 2386.7 RN = 4.8434





(XEBL 70)

AMES 11-073(OA148) -140A/B/C ORB LEFT WING BOT

2386.7 RN/L = 4.8434

**2**

■ 593.15


$$245 \text{ MACH} = .59584$$

$\beta(5) = 11.942$  **BETA**

15:25 = 1

BETA (4) #

$$\begin{array}{c} \text{---} \\ \text{---} \\ \text{||} \end{array}$$

15 : 7587

५

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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ALPHA ( 5 ) = 11.935      BETA ( 5 ) = 8.309

SECTION ( 1 ) LEFT WING BOT SURF

DEPENDENT VARIABLE CP

	2Y/3M	DEPENDENT VARIABLE CP	Y/CN
	.2990	.3640	.4270
		.5340	.6730
			.7800
			.8870
			.9720

**X/CW**

**.775**

867.

808.

५८४

558

050  
057

857 853

2000

865  
879

506  
519

3 4 5

100

05-03

553

55

995

000

3

-.8932    -.4408

**- .7588**

**- .5156**

3843

-.4106    -.3371    -.3790

- 228 -

**-3603**

6039

1142

8823.1

- .2743

- .1431    - .1886    - .1447

-1217

1719

4003

0123

9290.

2850

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C ORB LEFT WING BOT

(XEBL71) ( 05 AUG 75 )

REFERENCE DATA

SREF = 2690 0000 SQ.FT. XMRP = 1076.6800 IN. XO  
LREF = 474.8000 IN. YMRP = .0000 IN. YO  
BREF = 936.0680 IN. ZMRP = 375.0000 IN. ZO  
SCALE = .0300

PARAMETRIC DATA

RUDDER = -5.000 SPOBRK = 55.000  
BDFLAP = 16.300 L-ELVN = -10.000  
R-ELVN = -10.000 MACH = 1.400

ALPHA ( ) = -3.946 BETA ( ) = -3.857 MACH = 1.3971 Q = 600.47 P = 439.47 RN/L = 2.9096

SECTION ( ) LEFT WING BOT SURF	DEPENDENT VARIABLE CP	
2Y/84	.2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720	
X/C4		
.010	-.1722	-.2397
.020	-.0000	-.1326
.040	-.0500	-.2319
.060	-.1526	-.2229
.080		-.2970
.091		-.4410
.096		-.4267
.104		-.4389
.110		-.4389
.117		-.1680
.129		-.0289
.146		-.1052
.157		-.1098
.163		-.1623
.177		-.1414
.229		-.2082
.246		-.1728
.250		-.1492
.274		-.2861
.345		-.0932
.390		-.1712
.400		-.1364
.402		-.1175
.503		-.4739
.550		-.1668
.565		-.4076
.600		-.4733
.637		-.4144
.650		-.4669
.670		
.700		
.730		
.750		
.775		
.800		
.830		
.850		
.870		
.900		
.950		

DATE 10 FEB 76 TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )  
 AMES 11-073(0A148) -140A/B/C ORB LEFT WING BOT (XEBL71)

ALPHA ( 1 ) = -3.946 BETA ( 1 ) = -3.857

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/8W	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CH	.857		-.4421					-.6018
	.862							
	.865							
	.879	-.4299		-.4165			-.4002	
	.900	-.3053		-.3451				
	.905		-.3635		-.2843	-.4082	-.3091	
	.919							
	.950							
	.953		-.3005					
	.955	-.2277						
	.965							
	1.000	-.3958	-.2021	-.2003			-.3110	

ALPHA ( 1 ) = -3.940 BETA ( 2 ) = .190 MACH = 1.3971 Q = 600.47 P = 439.47 RN/L = 2.9096

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/8W	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CH	.010							
	.020	-.0975	-.1134	-.0522	-.2707	-.3748	-.2596	-.2398
	.040	.0000	-.1131	-.1182	-.4062	-.4140	-.4357	-.4356
	.050		-.1126	-.1723	-.4277	-.4411	-.4657	-.4651
	.060	-.1033						-.5112
	.063							
	.080			-.3895				
	.081		-.1495					
	.085							
	.094	-.0916	-.0526		-.3054	-.3946	-.4103	-.4214
	.150							-.3089
	.157							
	.163		.0187					
	.177			-.1296				
	.229	-.0698	-.0735					
	.246				-.1566	-.3544	-.3708	-.3914
	.250							
	.274			-.1272				-.4670
	.345	-.0996						
	.330				-.1425	-.1525	-.3451	
	.400			-.1180				-.3615
	.422				-.1057	-.1370		
	.500		-.3161					-.3208

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 2872

(XEBL71)

AMES 11-073(0A148) -140A/B/C ORB LEFT WING BOT

ALPHA ( 1 ) = -3.940 BETA ( 2 ) = .190

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BM .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/C4

.637	-.0761						
.650							
.670							
.700							
.725							
.750							
.760							
.775							
.798							
.808							
.834							
.839							
.850							
.857							
.865							
.879							
.900							
.905							
.919							
.950							
.953							
.955							
.956							
1.000							

ALPHA ( 1 ) = -3.946 BETA ( 3 ) = 4.272 MACH = 1.3971 Q = 600.47 P = 439.47 RN/L = 2.9056

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BM .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/C4

.610	-.0757	-.0295	.0482	-.2621	-.3824	-.2950	-.2745
.620	.0000	-.0452	.0145	-.3880	-.4231	-.4532	-.4586
.640		-.0391	-.0715	-.3475	-.4441	-.4784	-.4857
.650	-.0749						
.669							
.680							
.681							
.686							
.689							
.691							
.696							
.699							
.701							
.707							
.717							
.757							
.763							





DATE 10 FEB 76

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 2874

AMES 11-073(0A148) -140A/B/C ORB LEFT WING BOT (XEBL71)

ALPHA ( 2 ) = .016 BETA ( 1 ) = -3.873 MACH = 1.3971 Q = 600.47 P = 438.47 RVL = 2.9088

SECTION ( 1 ) LEFT WING BOT SURF	DEPENDENT VARIABLE CP			
2Y/BW	.2990	.3640	.4270	.5340 .6730 .7800 .8870 .9720
X/CW				
.010	-.0024	.0142	.2136	-.0853 -.1793 -.1075 -.0206
.020	.0000	-.0160	.1550	-.2195 -.2274 -.2390 -.2567
.040		-.0183	.0139	-.2209 -.2360 -.2704 -.2750
.050	-.0277			-.1772
.069				-.0373
.080				.0266
.081				-.0476
.086				-.1230 -.1817 -.2003 -.2223
.094				-.1797
.150				
.157				
.163				
.177				-.0423
.229	-.0415			-.0502 -.1365 -.1570 -.1904
.246				-.1702
.250				
.274				-.0607 -.0473
.345	-.0347			-.1469
.390				-.1631
.400				
.402				
.503				-.0369 -.0462
.550				-.1145
.565				
.600				
.637	-.0236			-.0881
.650				
.670				-.1097
.700				-.3935
.725				
.750				-.0987
.760				-.3541 -.3850
.775				-.3285 -.3197
.794				
.809	-.0940			
.834				-.4143
.839				
.850	-.1301			
.857				-.4162
.862				
.865				-.4448 -.3606 -.4463
.879	-.3852			
.900	-.2768			-.4673
.905				-.4590
.919				-.4463
				-.3660
				-.4068



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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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(XEBL71)

AMES 11-073(0A148) -140A/B/C ORB LEFT WING BOT

ALPHA ( 2 ) = .022 BETA ( 2 ) = .180

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/84 .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CM

.775 .798 .808 .834 .839 .850 .857 .862 .865 .879 .900 .905 .919 .950 .953 .955 .955 1.000

- .3286 - .3207

- .0938 - .4066

- .1153

- .3793

- .4111

- .4383 - .3466 - .4386

- .3790

- .3726

- .3938

- .4624

- .4638

- .4662

- .2526

- .3660

- .2571

- .2671 - .3843 - .2707

- .2886

- .4091

- .1861

- .2061

- .2483

ALPHA ( 2 ) = .018 BETA ( 3 ) = .4248 MACH = 1.3971 Q = 600.47 P = 439.47 RVL = 2.9088

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/84 .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CM

.810 .870 .900 .940 .950 .963 .980 .985 .994 .999 .150 .157 .163 .177 .229 .246 .250 .274 .345 .390

- .0750 - .0622 .2664 - .0213 - .1728 - .1603 - .0919

- .0000 - .0348 .2527 - .0139 - .1160 - .2445 - .2940

- .0172

- .1913

- .0537

- .0739

- .1843

- .2319

- .2862

- .1825

- .0541

- .0430

- .0424

- .0562

- .1825

- .0541

- .0430

- .0424

- .0562

- .1825

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- .0424

- .0562

- .1825

- .0541

- .0430

- .0424

- .0562

- .1825

(XEBL71)

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

AMES 11-073(0A148) -140A/B/C ORB LEFT WING BOT

ALPHA ( 2 ) = .018 BETA ( 3 ) = 4.248

SECTION 1 LEFT WING BOT SURF DEPENDENT VARIABLE CP

2484 .2990 .3540 .4270 .5340 .6730 .7800 .8870 .9720

X/C

.400 -.0075 -.0147 -.0546 -.0847

.402 -.0004 -.0064 -.0101 -.0622

.503 -.3404 -.0769 -.3415 -.3766

.553 -.0049 -.0822 -.4102 -.4277

.565 -.0822 -.4102 -.4277 -.4277

.600 -.3650 -.4612 -.4612 -.4612

.637 -.3548 -.2570 -.2570 -.2570

.650 -.3486 -.1862 -.1862 -.1862

.670 -.3693 -.3693 -.3693 -.3693

.700 -.3693 -.3693 -.3693 -.3693

.715 -.3693 -.3693 -.3693 -.3693

.750 -.3693 -.3693 -.3693 -.3693

.775 -.3693 -.3693 -.3693 -.3693

.798 -.3693 -.3693 -.3693 -.3693

.804 -.3693 -.3693 -.3693 -.3693

.839 -.3693 -.3693 -.3693 -.3693

.850 -.3693 -.3693 -.3693 -.3693

.857 -.3693 -.3693 -.3693 -.3693

.852 -.3693 -.3693 -.3693 -.3693

.879 -.3693 -.3693 -.3693 -.3693

.900 -.3693 -.3693 -.3693 -.3693

.905 -.3693 -.3693 -.3693 -.3693

.919 -.3693 -.3693 -.3693 -.3693

.950 -.3693 -.3693 -.3693 -.3693

.953 -.3693 -.3693 -.3693 -.3693

.955 -.3693 -.3693 -.3693 -.3693

.955 -.3693 -.3693 -.3693 -.3693

1.000 -.3693 -.3693 -.3693 -.3693

ALPHA ( 3 ) = 3.951 BETA ( 1 ) = -3.877 MACH = 1.3961 Q = 600.56 P = 440.18 RN/L = 2.9092

SECTION 1 LEFT WING BOT SURF DEPENDENT VARIABLE CP

2484 .2990 .3540 .4270 .5340 .6730 .7800 .8870 .9720

X/C

.400 -.0075 -.0147 -.0546 -.0847

.402 -.0004 -.0064 -.0101 -.0622

.503 -.3404 -.0769 -.3415 -.3766

.553 -.0049 -.0822 -.4102 -.4277

.565 -.0822 -.4102 -.4277 -.4277

.600 -.3650 -.4612 -.4612 -.4612

.637 -.3548 -.2570 -.2570 -.2570

.650 -.3486 -.1862 -.1862 -.1862

.670 -.3693 -.3693 -.3693 -.3693

.700 -.3693 -.3693 -.3693 -.3693

.715 -.3693 -.3693 -.3693 -.3693

.750 -.3693 -.3693 -.3693 -.3693

.775 -.3693 -.3693 -.3693 -.3693

.798 -.3693 -.3693 -.3693 -.3693

.804 -.3693 -.3693 -.3693 -.3693

.839 -.3693 -.3693 -.3693 -.3693

.850 -.3693 -.3693 -.3693 -.3693

.857 -.3693 -.3693 -.3693 -.3693

.852 -.3693 -.3693 -.3693 -.3693

.879 -.3693 -.3693 -.3693 -.3693

.900 -.3693 -.3693 -.3693 -.3693

.905 -.3693 -.3693 -.3693 -.3693

.919 -.3693 -.3693 -.3693 -.3693

.950 -.3693 -.3693 -.3693 -.3693

.953 -.3693 -.3693 -.3693 -.3693

.955 -.3693 -.3693 -.3693 -.3693

.955 -.3693 -.3693 -.3693 -.3693

1.000 -.3693 -.3693 -.3693 -.3693



(XEBL 71)

AMES 11-073(OA148) -140A/B/C ORB LEFT WING BOT

ALPHA ( 3 ) =	3.952	BETA ( 2 ) =	.179	MACH	=	1.3951	Q	=	600.56	P	=	440.18	FN/L	=	2.9092
---------------	-------	--------------	------	------	---	--------	---	---	--------	---	---	--------	------	---	--------

SECTION : 11 LEFT WING BOT SURF

DEPENDENT VARIABLE CP

2Y/5W	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
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**X/CW**

[illegible]

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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(XEBL71)

AMES 11-073(0A148) -140A/B/C ORB LEFT WING BOT

ALPHA ( 3 ) = 3.952 BETA ( 2 ) = .179

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.950 -.2740 -.3800 -.4591

.953 -.2271

.955 -.3193

.965 -.3848

1.000 -.1608

.2102 -.3478

ALPHA ( 3 ) = 3.956 BETA ( 3 ) = 4.242 MACH = 1.3961 Q = 600.56 P = 440.18 RN/L = 2.9092

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.010

.020 -.1624

.040

.050 -.0521

.069

.081

.086

.094

.150

.157

.163

.177

.229 -.0208

.246

.250

.274

.345

.390

.400

.402

.503

.555

.600

.637

.650

.670

.700

.725

.750

.760

.2604

.2734

.2332

.1505

.0122

.1418

.0827

.0920

.0875

.3853

.0811

.1074

.1001

.0988

.0957

.0829

.0985

.1190

.0754

.0761

.0251

.0318

.0078

.0038

.0326

.1218

.1185

.1019

.0985

.0761

.0754

.0251

.0318

.0078

.0038

.0326

.1218

.1185

.1019

.0985

.0761

.0754

.0251

.0318

.0078

.0038

.0326

.1218





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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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(XEBL71)

AMES 11-073(0A148) -140A/B/C ORB LEFT WING BOT

ALPHA ( 4 ) = 7.987 BETA ( 1 ) = -3.873

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/8W .2950 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CM

.400							
.402							
.503		.1800		.1988	.2520	.2055	
.550				.1850	.2803		.0961
.565							
.600							
.637							
.650		.1587					
.670							
.700							
.725							
.750							
.760							
.775							
.798		.0162					
.808							
.834							
.839							
.850							
.857							
.862							
.865							
.879							
.900							
.905							
.919							
.950							
.953							
.955							
.965							
1.000							

ALPHA ( 4 ) = 7.995 BETA ( 2 ) = .177 MACH = 1.3969 Q = 600.27 P = 439.47 RN/L = 2.9090

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/8W .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CM

.400							
.402							
.503		.1300		.5280	.4743	.5347	.5323
.550		.0000		.4218	.4204	.4406	.4219
.565							
.600							
.637							
.650							
.670							
.700							
.725							
.750							
.760							
.775							
.798							
.808							
.834							
.839							
.850							
.857							
.862							
.865							
.879							
.900							
.905							
.919							
.950							
.953							
.955							
.965							
1.000							

(XEBL71)

AMES 11-073(OA148) -140A/B/C ORB LEFT WING BOT

ALPHA ( 4 ) = 7.995 BETA ( 2 ) = .177

SECTION: LEFT WING BOT SURF

DEPENDENT VARIABLE CP

2Y/8X	.2990	.3640	.4270	.5340	.6730	.7800	.9870	.9720
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**MC/X**

[illegible]

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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(XEBL71)

AMES 11-073(0A148) -140A/B/C ORB LEFT WING BOT

RN/L = 2.9090

= 439.47

P

= 690.27

Q

= 1.3969

MACH = 4.237

BETA ( 3 ) = 7.892

ALPHA ( 4 ) = 7.892

SECTION ( 1 ) LEFT WING BOT SURF

DEPENDENT VARIABLE CP

2Y/BA .2990 .3640 .4270 .5340 .6730 .7808 .8870 .9720

X/CH

.010 -.2115 -.4286 .1033 .4929 .4599 .5130 .5083

.020 .0000 -.2181 .2198 .4238 .4181 .4406 .4267

.040 .0400 -.1646 .2560 .3263 .3113 .3359 .3755

.050 -.0541 .069 .080 .081 .086 .094 .150

.069 .069 .080 .081 .086 .094 .150 .157

.080 .080 .081 .086 .094 .150 .157 .163

.081 .081 .086 .094 .150 .157 .163 .177

.086 .086 .094 .150 .157 .163 .177 .229

.094 .094 .150 .157 .163 .177 .229 .246

.150 .150 .157 .163 .177 .229 .246 .274

.157 .157 .163 .177 .229 .246 .274 .345

.163 .163 .177 .229 .246 .274 .345 .390

.177 .177 .229 .246 .274 .345 .390 .400

.229 .229 .246 .274 .345 .390 .400 .402

.246 .246 .274 .345 .390 .400 .402 .503

.274 .274 .345 .390 .400 .402 .503 .550

.345 .345 .390 .400 .402 .503 .550 .555

.390 .390 .400 .402 .503 .550 .555 .600

.400 .400 .402 .503 .550 .555 .600 .637

.402 .402 .503 .550 .555 .600 .637 .650

.503 .503 .550 .555 .600 .637 .650 .670

.550 .550 .600 .637 .650 .670 .670 .700

.600 .600 .637 .650 .670 .670 .700 .725

.637 .637 .650 .670 .670 .700 .725 .760

.650 .650 .670 .670 .700 .725 .760 .775

.670 .670 .700 .725 .760 .775 .798 .808

.700 .700 .725 .760 .775 .798 .808 .834

.725 .725 .760 .775 .798 .808 .834 .839

.760 .760 .775 .798 .808 .834 .839 .850

.775 .775 .798 .808 .834 .839 .850 .857

.798 .798 .808 .834 .839 .850 .857 .875

.808 .808 .834 .839 .850 .857 .875 .879

.834 .834 .839 .850 .857 .875 .879 .900

.839 .839 .850 .857 .875 .879 .900 .905

.850 .850 .857 .875 .879 .900 .905 .919

.857 .857 .875 .879 .900 .905 .919 .919

.875 .875 .879 .900 .905 .919 .919 .919

.879 .879 .900 .905 .919 .919 .919 .919

.900 .900 .905 .919 .919 .919 .919 .919

.905 .905 .919 .919 .919 .919 .919 .919

.919 .919 .919 .919 .919 .919 .919 .919

.919 .919 .919 .919 .919 .919 .919 .919

.919 .919 .919 .919 .919 .919 .919 .919

.919 .919 .919 .919 .919 .919 .919 .919

.919 .919 .919 .919 .919 .919 .919 .919

.919 .919 .919 .919 .919 .919 .919 .919

.919 .919 .919 .919 .919 .919 .919 .919

.919 .919 .919 .919 .919 .919 .919 .919

.919 .919 .919 .919 .919 .919 .919 .919

.919 .919 .919 .919 .919 .919 .919 .919

.919 .919 .919 .919 .919 .919 .919 .919

.919 .919 .919 .919 .919 .919 .919 .919



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(XEBL71)

AMES 11-073(0A148) -140A/B/C ORB LEFT WING BOT

ALPHA ( 5 ) = 11.960 BETA ( 1 ) = -3.861

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP  
2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW  
.775  
.798  
.808  
.834  
.839  
.850  
.857  
.862  
.865  
.879  
.900  
.905  
.919  
.950  
.953  
.960  
.965  
1.000  
-1.2498  
-1.0614  
-1.2089  
-1.3528  
-1.3621  
-1.2418  
-1.2617  
-1.1820  
-1.3264  
-1.3543  
-1.3509  
-1.3620  
-1.3960  
-1.3853  
-1.3846  
-1.2993  
-1.3440  
-1.3056  
-1.2999  
-1.2545  
-1.2295  
-1.3419  
-1.3419

ALPHA ( 5 ) = 11.960 BETA ( 2 ) = .177 MACH = 1.3964 Q = 800.16 P = 439.71 RN/L = 2.9137

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP  
2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW  
.010  
.020  
.040  
.050  
.059  
.080  
.081  
.086  
.094  
.150  
.157  
.163  
.177  
.229  
.246  
.274  
.345  
.390  
-1.3423  
-1.0000  
-1.385  
-1.0757  
.0262  
.0730  
.1119  
.3040  
.1182  
.2379  
.3062  
.2781  
.6270  
.6190  
.5493  
.4622  
.3928  
.3463  
.3273  
.3273  
.3620  
.3939  
.3703  
.1381  
.6712  
.6066  
.5757  
.5024  
.5417  
.4296  
.4393  
.4393  
.3620  
.3939  
.3703  
.1381  
-1.0738  
-1.0469  
-1.0359

DATE 10 FEB 76

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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(XEBL71)

ALPHA ( 5 ) = 11.959 BETA ( 3 ) = .177

AMES 11-073(0A148) -140A/B/C ORB LEFT WING BOT

SECTION ( 1 ) LEFT WING BOT SURF

DEPENDENT VARIABLE CP

2Y/8W .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.400 .402 .503 .550 .565 .600 .637 .650 .670 .700 .725 .750 .760 .775 .798 .808 .834 .839 .850 .857 .862 .865 .879 .900 .905 .919 .950 .952 .955 .955 1.000

.2919 .3197 .3720 .3334 .0947

.4772 .2844 .2996 .1925

.2624 .2163 .1429 .3223

.1585 .2201 .2230

.1217 .2296 .2345

.1021 .2146

.0997 .2325

.2845

.2403 .2950

.0647 .1883

.3370

.3914 .3781 .3807

.3261

.2240

.2702

.2091

.3212

.3891

ALPHA ( 5 ) = 11.967 BETA ( 3 ) = 4.251 MACH = 1.3964 0 = 800.16 P = 439.71 RV/L = 2.9137

SECTION ( 1 ) LEFT WING BOT SURF

DEPENDENT VARIABLE CP

2Y/8W .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.410 .420 .500 .550 .565 .600 .637 .650 .670 .700 .725 .750 .760 .775 .798 .808 .834 .839 .850 .857 .862 .865 .879 .900 .905 .919 .950 .952 .955 .955 1.000

.2919 .3197 .3720 .3334 .0947

.4772 .2844 .2996 .1925

.2624 .2163 .1429 .3223

.1585 .2201 .2230

.1217 .2296 .2345

.1021 .2146

.0997 .2325

.2845

.2403 .2950

.0647 .1883

.3370

.3914 .3781 .3807

.3261

.2240

.2702

.2091

.3212

.3891

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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(XEBL71)

AMES 11-07310A148) -140A/B/C ORB LEFT WING BOT

ALPHA ( 5 ) = 11.967 BETA ( 3 ) = 4.251

SECTION ( 1 ) LEFT WING BOT SURF

DEPENDENT VARIABLE CP

2Y/BW .2390 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/C4

.081	.2611						
.086	.0293						
.094	.02 9		.3230	.3817	.4106	.4265	-.0723
.150							
.157	.2341						
.163							
.177	.2544						
.229	.0766						
.245							
.250	.1984		.3048	.3426	.3819	.3510	
.274			.2787				.0981
.345	.2465						
.350			.3093	.3557		.3204	
.400			.2791				.0647
.402							
.503			.2754	.2942			
.550			-.4347				
.555							.1825
.600	.2589				.2069		
.637							-.3313
.650							
.670			.1522				
.700					-.2258	-.2333	
.725							
.750			.1128				
.790			-.2149	-.2349			
.795	.0918						
.808			-.2210				
.834	.0906						
.849			-.2322				
.850				-.2978	-.3493	-.3083	
.857			-.2736				-.4105
.862							
.865	-.2446						
.879							
.900	-.1019			-.3424		-.3796	
.905			-.3393				
.919							
.950	-.1932			-.3831	-.3505	-.3856	
.953			-.2924				
.955							
.965	-.2729				-.2673		-.4042
.970			-.2279				
.973							





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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 2890

(XEBL71)

ALPHA ( 6 ) = 15.903 BETA ( 1 ) = -3.840 AMES 11-073(0A148) -140A/B/C ORB LEFT WING BOT

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/3W .2930 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.950  
 .953  
 .955  
 .965  
 1.000

-.3374  
 -.1951  
 -.0938  
 -.2646  
 -.3561  
 -.3460  
 -.3414  
 -.3388  
 -.5005

ALPHA ( 6 ) = 15.917 BETA ( 2 ) = .180 MACH = 1.3960 Q = 600.45 P = 440.18 RN/L = 2.9185

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/3W .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.010  
 .020  
 .040  
 .050  
 .060  
 .080  
 .081  
 .086  
 .094  
 .100  
 .107  
 .123  
 .157  
 .163  
 .177  
 .229  
 .246  
 .250  
 .257  
 .260  
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 .704  
 .709  
 .714  
 .719  
 .724  
 .729  
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 .754  
 .759  
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 .904  
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 .994  
 .999

.6568  
 .6951  
 .6995  
 .6804  
 .6821  
 .7050  
 .6995  
 -.1470  
 .6362  
 .6596  
 .5162  
 .4712  
 .5350  
 .5774  
 .5484  
 -.0348  
 .4456  
 .4966  
 .5388  
 .4819  
 .4366  
 .4959  
 .4306  
 .4150  
 .4085  
 .2885  
 .3028  
 .2485  
 -.2738  
 .2340  
 -.1692  
 -.1837  
 .2165

REPRODUCIBILITY OF THE  
ORIGINAL PAGE IS POOR

DATE 10 FEB 76

TABULATED PRESSURE DATA - 0A149 ( AMES 11-073-1 )

PAGE 2891

(XEBL71)

AMES 11-073(0A149) -140A/B/C ORG LEFT WING BOT

ALPHA ( 6 ) = 15.917 BETA ( 2 ) = .180

SECTION ( 1 ) LEFT WING BOT SURF

DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.775							
.798		.1979		-.1638	-.1823		
.828			-.1544				
.834	.1958						
.839		-.1802					
.950				-.2512	-.3197	-.2599	
.857			-.2419				
.852							-.3619
.855	-.1930						
.879		-.2523					
.900	-.0758		-.3010			-.3336	
.905							
.919	-.1781		-.2992				
.950				-.3525	-.3504	-.3504	
.953			-.3083				
.955		-.1876					
.945	-.1316						
1.000		-.3955		-.3123		-.5232	

ALPHA ( 6 ) = 15.910 BETA ( 3 ) = 4.280 MACH = 1.3960 Q = 600.45 P = 440.18 RV/L = 2.9185

SECTION ( 1 ) LEFT WING BOT SURF

DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.010							
.020	-.3766	-.4703	-.0797	.5392	.5851	.5698	.5585
.040	.0000	-.2424	.1479	.5569	.5994	.6236	.6082
.050		-.1724	.3267				
.059	-.0214			.5137	.5651	.5809	.6006
.080							-.0566
.081			.3243				
.085		.0646					
.094	.0556						
.100							
.101				.4332	.4944	.5432	.5182
.103							-.0750
.104		.2923					
.105			.3450				
.109	.1292						
.110		.2714					
.111				.4132	.4724	.5075	.4629
.112			.3905				
.113							.1423
.114							
.115							
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.200							

DATE 10 FEB 76

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 2882

(XEBL71)

AMES 11-073(0A148) -140A/B/C ORB LEFT WING BOT

ALPHA ( 6 ) = 15.910 BETA ( 3 ) = 4.280

SECTION ( LEFT WING BOT SURF	DEPENDENT VARIABLE CP			
2Y/BW	.2990	.3540	.4270	.5340 .6730 .7800 .8870 .9720
X/CW				
.400				
.402				
.503	.3888	.4210	.4672	.4116
.550				.1132
.555		.3799	.3954	
.600				.2636
.637				
.650	.3585			
.670				.2879
.700				
.725		.2498	.2488	
.750				
.760	.2034			
.775				
.798				
.808	.1835			
.834				
.839				
.850				
.857				
.882				
.895				
.909				
.919				
.953				
.955				
.955				
1.003				

- .3816

- .4832

DATE 10 FEB 75 TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

AMES 11-073(0A148) -140A/B/C ORB LEFT WING BOT (XEBL72) ( 05 AUG 75 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XPRP = 1076.6800 IN. XO  
LREF = 474.8000 IN. YPRP = .0000 IN. YO  
BREF = 936.0680 IN. ZPRP = 375.0000 IN. ZO  
SCALE = .0300

PARAMETRIC DATA

RUDDER = -5.000 SPOBRK = 55.000  
BDFLAP = 16.300 L-ELVN = -10.000  
R-ELVN = -10.000 MACH = 1.250

ALPHA ( 1 ) = -3.944 BETA ( 1 ) = -3.854 MACH = 1.2471 Q = 599.40 P = 550.52 RN/L = 3.0068

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

27/84 .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CH

.010	-.1494	-.2022	-.2039	-.4033	-.5073	-.3557	-.3261
.020	.0000	-.2719	-.3077	-.5532	-.5493	-.5657	-.6058
.040		-.2643	-.3322				
.050	-.1518			-.5750	-.5760	-.6005	-.5920
.069							-.6566
.080				-.5337			
.081			-.2329				
.086		-.1478					
.094	-.1493			-.4938	-.5119	-.5304	-.5412
.150							-.3652
.157		-.0501	-.2137				
.163							
.177							
.229	-.1330						
.246		-.1416		-.2353	-.4621	-.4775	-.5001
.250							
.274			-.1984				-.5970
.345		-.1693					
.390				-.2041	-.2657		-.4448
.400			1.1673				-.5676
.402							
.503				-.1426	-.1778		
.550			-.3769				
.565							
.600							
.637		-.1111					
.650							
.670					-.2205		-.6674
.700							
.725				-.1958	-.2136		
.750			-.0754			-.4618	-.6866
.760				-.4718	-.3639		
.775							
.794		-.1065	-.6006				
.834							
.839	-.1693	-.4910		-.5766	-.5376	-.5698	
.850							

DATE 10 FEB 76

TABULATED PRESSURE DATA - QA148 ( AMES 11-073-1 )

**PAGE 289H**

ALPHA ( 1 ) =	-3.944	BETA ( 1 ) =	-3.854
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(XEBL 72)

AMES 11-073(OA148) -140A/B/C ORB LEFT WING BOT

SECTION (	1) LEFT WING BOT SURF	DEPENDENT VARIABLE CP
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100		

2Y/8W	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
-------	-------	-------	-------	-------	-------	-------	-------	-------

X/CH	
.857	- .5466
.862	
	-.6306

.655	- .5164	- .5263	- .4877	- .4222
.879				
.900				

1.000	-	4150	-	3631	-	6337	-	3082
1.000	-	4482	-		-		-	
1.019	-		-		-		-	
1.950	-		-		-		-	

953	-.3659	-.3631	-.3082
955	-.3087		
965	-.5023		

1.000	- .5025	- .2457	- .2472	- .3378
PHI ( 1 ) =	- 3.937	BETA ( 2 ) =	.190	MACH = 1.2471

ALPHA ( 1 ) = -3.937    BETA ( 2 ) = .190    MACH = 1.2471    Q = 599.40'    P = 550.63    RN/L = 3.0068

SECTION (1) LEFT WING BOT SURF

2Y/EW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
-------	-------	-------	-------	-------	-------	-------	-------	-------

0.10	-0.970	-1.300	-0.960	-4.027	-5.315	-3.958	-3.804
0.20	-0.930	-1.378	-1.315	-5.514	-5.693	-5.971	-5.941
0.30	-0.890	-1.456	-1.393	-6.603	-6.882	-7.160	-7.130
0.40	-0.850	-1.534	-1.470	-7.692	-7.961	-8.239	-8.209
0.50	-0.810	-1.612	-1.547	-8.781	-8.850	-9.128	-9.098
0.60	-0.770	-1.690	-1.625	-9.870	-9.939	-10.217	-10.187
0.70	-0.730	-1.768	-1.702	-10.959	-11.028	-11.306	-11.276
0.80	-0.690	-1.846	-1.780	-12.048	-12.117	-12.395	-12.365
0.90	-0.650	-1.924	-1.857	-13.137	-13.206	-13.484	-13.454
1.00	-0.610	-2.002	-1.935	-14.226	-14.295	-14.573	-14.543

0.00	-1.143	-5.225	-5.899	-6.260	-6.242	-6.880
0.00	1.671	-1.321	1.519	-1.519	-1.519	-1.541
0.00	0.000	-1.519	-1.519	-5.514	-5.514	-5.514
0.00	0.000	0.000	0.000	0.000	0.000	0.000

.096	- .0887
.091	- .1816
.090	- .4957
.088	- .6880

0.025	-0.0687
0.094	-0.1171
0.150	
0.157	
	-0.2796
	-0.5100
	-0.5462
	-0.5721
	-0.7066

Variable	Mean	Standard Deviation	Minimum	Maximum
Age	38.57	10.157	22	55
Gender	1.55	0.500	1	2
Marital Status	1.77	0.418	1	2
Education	13.23	2.092	9	16
Income	10,072	1,1620	5,000	15,000
Health	1.3888	0.500	1	2

-.0902	-.0963	-.1840	-.3760	-.4925	-.5276
-.233	-.235	-.250	-.259	-.264	-.267

-.1427	-1709	-1701	-16147	-6335
-.1121				
-.375				
-.330				
-.1427				

4.03	- .1399	- .1704	- .4643
4.12			
4.23	- .1170		
4.50			- .6021

550	- .1160	- .1350
505	- .4176	
.600		- .3001

(XEBL72)

DATE 10 FEB 76 TABULATED PRESSURE DATA - OA148 ( AMES 11-073-1 )  
 AMES 11-073(OA148) -140A/B/C ORB LEFT WING BOT

ALPHA ( 1 ) = -3.937 BETA ( 2 ) = .190

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW .2930 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW	-.0885	-.1707	-.6625
.637			
.650			
.670			
.703			
.725			
.750			
.760			
.775			
.798			
.808			
.834			
.833			
.850			
.857			
.862			
.865			
.879			
.900			
.905			
.919			
.950			
.953			
.955			
.965			
1.000			

ALPHA ( 1 ) = -3.943 BETA ( 3 ) = 4.266 MACH = 1.2471 Q = 599.40 P = 550.63 RN/L = 3.0068

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW .2930 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW	-.0950	-.0447	.0327	-.3885	-.5392	-.4328	-.4177
.010							
.020							
.040							
.050							
.059							
.080							
.091							
.106							
.124							
.152							
.157							
.163							

DATE 10 FEB 76 TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

(XEBL72)

AMES 11-073(0A148) -140A/B/C ORB LEFT WING BOT

ALPHA ( 1 ) = -3.943 BETA ( 3 ) = 4.286

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.177	-.1099						
.229	-.0651						
.246	-.0456						
.250		-.1441	-.1835	-.3848	-.5320		
.274		-.0927					-.6306
.345							
.390	-.0661						
.400		-.1054	-.1334		-.3280		
.402		-.0861					-.4487
.443		-.0938	-.1098				
.550		-.3739			-.1489		
.600	-.0766			-.1561			-.4255
.637							
.650			-.1711				
.670							
.700		-.1723		-.4349	-.5564		
.725							
.750		-.0813					
.700		-.4643	-.3759				
.775	-.1098						
.798		-.5978					
.804							
.834	-.1630						
.839		-.4804					
.850				-.5762	-.4845	-.5652	
.857		-.5422					-.4973
.862							
.865	-.5020						
.879		-.4890				-.5165	
.900	-.3991			-.5893			
.905		-.5386					
.919		-.4771					
.950			-.3768	-.5991	-.3389		
.953		-.3684					
.955		-.4506					
.955	-.5791						
1.000		-.2851	-.2497			-.2480	

DATE 10 FEB 76 TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

AMES 11-073(0A148) -140A/B/C ORB LEFT WING BOT (XEBL72)

ALPHA ( 2 ) = .045 BETA ( 1 ) = -3.865 MACH = 1.2470 Q = 599.69 P = 551.11 RN/L = 3.0108

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BA .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CH

.010	.0063	.0122	.2116	-.1787	-.2914	-.2146	-.1292
.020	.0000	-.0200	.1795	-.3270	-.3508	-.3616	-.3229
.040		-.0176	-.0094				
.050	-.0314			-.2368	-.3296	-.3785	-.3978
.069							-.3573
.080			-.0507	-.2109			
.091		.0226					
.096							
.094	-.0549			-.1375	-.2281	-.2720	-.3172
.150							-.2196
.157		.0936					
.163			-.0821				
.177	-.0501						
.229		-.0295		-.0833	-.0973	-.1962	-.2659
.246			-.0574				-.2205
.250				-.0678	-.0727		-.1264
.274		-.0428					-.1225
.345			-.0538	-.0395	-.0479		
.400			-.4224			-.1073	
.402							-.4561
.503							
.550							
.565							
.600		-.0238				-.0920	
.637							
.640							
.670							
.700							
.725				-.1147			
.760						-.4174	-.5061
.775				-.0762	-.4152	-.3433	
.793		-.0717					
.823		-.5199					
.834							
.839	-.1335	-.4582					
.850				-.5395	-.4397	-.5428	
.857			-.5018				-.4514
.862							
.863	-.4685						
.878		-.4799					
.900	-.3154			-.5290			-.2771
.905			-.4272				
.919		-.4157					



DATE 10 FEB 76

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 2898

(XEBL72)

AMES 11-073(0A148) -140A/B/C ORB LEFT WING BOT

ALPHA ( 2 ) = .045 BETA ( 1 ) = -3.865

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/84 .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.950 -.2819 -.4564 -.2575

.953 -.3114

.955 -.2534

.959 -.4672

1.000

-.1967

-.2503

-.2075

ALPHA ( 2 ) = .050 BETA ( 2 ) = .176 MACH = 1.2470 Q = 599.89 P = 551.11 RN/L = 3.0108

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/84 .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.910 -.0418 .0023 .2601 -.1559 -.3083 -.2578 -.1756

.920 .0000 -.0059 .2322 -.1812 -.2921 -.3752 -.4268

.940 .042 .0023 .0516

.960 .0435

.980 .044

.990 .044

.995 .044

.999 .044

1.000 .044

1.001 .044

1.002 .044

1.003 .044

1.004 .044

1.005 .044

1.006 .044

1.007 .044

1.008 .044

1.009 .044

1.010 .044

1.011 .044

1.012 .044

1.013 .044

1.014 .044

1.015 .044

1.016 .044

1.017 .044

1.018 .044

1.019 .044

1.020 .044

1.021 .044

1.022 .044

1.023 .044

1.024 .044

1.025 .044

1.026 .044

1.027 .044

1.028 .044

1.029 .044

1.030 .044

-.1759

-.2836

-.3633

-.4268

-.3219

-.1502

-.0023

.0447

-.0696

.1140

-.0373

-.0032

-.0560

-.0823

-.0800

-.1201

-.0109

-.0248

-.0255

-.0822

-.0190

-.0265

-.0265

-.0796

-.0118

-.0743

-.4509

-.1065

-.1085

-.4088

-.4961

-.0776

(XEBL 72)

PRESSURE DATA - 0A148 ( AMES 11-073-1 )  
 AMES 11-073(0A148) - 140A/B/C ORB LEFT WING BOT

ALPHA ( 2 ) =	.050	BETA ( 2 ) =	.176
---------------	------	--------------	------

SECTION 1 LEFT WING BOT SURF

2Y/BLH	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
--------	-------	-------	-------	-------	-------	-------	-------	-------

	X/CH	
	-.4211	-.3693
	.775	

-.0796  
-.5363

834	- .1220
839	- .4600

850	-5336	-4344	-5365
857	-5084		

9.646  
- .3682

1979	-14746	-5618	-2412
1980	-3194		
1981			

933	- .3163	
933		- 7718 - 5074 - 2627
933	- .4407	
933		

953	- .3316	.0037	.0003
955	- .7552		

	- .5187	- .2415	- .2478	- .2030
--	---------	---------	---------	---------

$$\Delta (2) = .045 \quad \text{BETA} (3) = 4.247 \quad \text{MACH} = 1.247C \quad \alpha$$

POSITION (1) LEFT WING BOT SURF	DEPENDENT VARIABLE CP
1	0.000
2	0.000
3	0.000
4	0.000
5	0.000
6	0.000
7	0.000
8	0.000
9	0.000
10	0.000
11	0.000
12	0.000
13	0.000
14	0.000
15	0.000
16	0.000
17	0.000
18	0.000
19	0.000
20	0.000
21	0.000
22	0.000
23	0.000
24	0.000
25	0.000
26	0.000
27	0.000
28	0.000
29	0.000
30	0.000
31	0.000
32	0.000
33	0.000
34	0.000
35	0.000
36	0.000
37	0.000
38	0.000
39	0.000
40	0.000
41	0.000
42	0.000
43	0.000
44	0.000
45	0.000
46	0.000
47	0.000
48	0.000
49	0.000
50	0.000
51	0.000
52	0.000
53	0.000
54	0.000
55	0.000
56	0.000
57	0.000
58	0.000
59	0.000
60	0.000
61	0.000
62	0.000
63	0.000
64	0.000
65	0.000
66	0.000
67	0.000
68	0.000
69	0.000
70	0.000
71	0.000
72	0.000
73	0.000
74	0.000
75	0.000
76	0.000
77	0.000
78	0.000
79	0.000
80	0.000
81	0.000
82	0.000
83	0.000
84	0.000
85	0.000
86	0.000
87	0.000
88	0.000
89	0.000
90	0.000
91	0.000
92	0.000
93	0.000
94	0.000
95	0.000
96	0.000
97	0.000
98	0.000
99	0.000
100	0.000

1	.2930	.3540	.4270	.5340	.6730	.7800	.8870	.9720
---	-------	-------	-------	-------	-------	-------	-------	-------

CM

0.310	-0.0645	-0.0519	-0.2608	-0.2658	-0.1993
0.077	-0.0000	-0.0526	-0.1796	-0.3510	-0.4217
0.077	-0.1212	-0.2845	-0.2608	-0.2608	-0.1878

0.00	-0.0169	.1134		
0.00	-0.0851		-0.1059	-0.2271
				-0.2774
				-0.3412
				-0.671

-0767

ns12

.189  
.189  
- .189  
-.189

**0+85**

1.0000	-.0526	-.0889	-.0981	-.1128	-.1300
--------	--------	--------	--------	--------	--------

155	.155	-.002
-----	------	-------

[illegible]

	-0.153	-0.0454	-0.0615	-0.0918
	.0115			

Year	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100
1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	

1

[illegible][illegible]

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 2900

(XEBL72)

AMES 11-073(0A148) -140A/B/C ORB LEFT WING BOT

ALPHA ( 2 ) = .045 BETA ( 3 ) = 4.247

SECTION ( 1 ) LEFT WING BOT SURF

DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.400							
.402	.0075	.0004	.0067	-.0633			
.503							-.1157
.550							
.555							
.600							
.637							
.650							
.670							
.700							
.725							
.750							
.775							
.792							
.808							
.834							
.838							
.850							
.857							
.860							
.866							
.873							
.905							
.919							
.930							
.953							
.955							
.958							
1.000							

ALPHA ( 3 ) = 3.983 BETA ( 1 ) = -3.876 MACH = 1.2481 Q = 600.17 P = 550.40 RNL = 3.0062

SECTION ( 1 ) LEFT WING BOT SURF

DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.010							
.0371							
.070							
.090							
.094							
.097							
.099							
.100							

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

(XEBL 72)

ALPHA ( 3 ) =	3.983	BETA ( 1 ) =	-3.876
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SECTION 6 LEFT WING BOT SURF

2Y/12M	.2930	.3540	.4270	.5340	.6730	.7900	.8870	.9720
--------	-------	-------	-------	-------	-------	-------	-------	-------

**X/CX**

[illegible]

APES 11-073(OA149) -149A/B/C ORB LEFT WING BQT (XEBL72)

AMES 11-073(OA149) -149A/B/C ORB LEFT WING BQT

ALPHA ( 3 ) = 3.983    BETA ( 2 ) = .181    MACH = 1.2481    Q = 600.17    P = 550.40    RN/L = 3.0062

X/CW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
.010	-.0869	-.2297	.3705	.2894	.1732	.1688	.1976	
.020	-.0000	-.1082	.3693	.1818	.1437	.0983	.0610	.0277
.040		-.0700	.2505					
.050	-.0202			.1121	.0460	.0744	.0667	.0070
.069								
.080				.0958				
.091			.1562					
.066		.0608						
.094	-.0225							
.150				.0671	.0981	.0974	.0895	-.0851
.157								
.163	.2002							
.177			.0883					
.229	-.0210							
.246		.0968						
.260								
.274			.0990	.0939	.0843	.0847	.0466	.0068
.245								
.360	.0937							
.400				.0972	.1157		.0740	
.402			.0888					
.503								
.560				.0912	.0943			-.0424
.566		-.5099						
.630								
.637								
.650	.0863							
.670						.0076		-.4804
.700								
.725				-.0207	-.0364			
.750								
.760			-.0422			-.3901	-.4262	
.775				-.3717	-.4053			
.799								
.808	-.0542							
.834		-.4456						
.839	-.0702							
.850		-.4144						
.857				-.4902	-.3786	-.5007		
.852								
.855	-.4274							-.4590
.879		-.4311						
.900	-.2316			-.5351			-.5519	
.905		-.5249						
.919		-.3754						

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

(XEBL72)

ALPHA ( 3 ) = 3.983 BETA ( 2 ) = .181

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/84 .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CH

.950  
.953  
.955  
.955  
1.000  
-0.2670  
-0.3504  
-0.4739  
-0.1889  
-0.2341  
-0.2411  
-0.2892  
-0.4218  
-0.5518

ALPHA ( 3 ) = 3.984 BETA ( 3 ) = 4.240 MACH = 1.2481 Q = 608.17 P = 550.40 RN/L = 3.0062

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/84 .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CH

.010  
.020  
.040  
.050  
.069  
.080  
.086  
.094  
.150  
.157  
.163  
.177  
.229  
.246  
.250  
.274  
.345  
.390  
.400  
.402  
.503  
.550  
.585  
.620  
.637  
.650  
.670  
.700  
.725  
.750  
.760  
-0.2455  
-0.0000  
-0.2180  
-0.1685  
-0.0930  
-0.3742  
-0.3180  
-0.2619  
-0.1700  
-0.0904  
-0.1108  
-0.1171  
-0.0294  
-0.2852  
-0.3428  
-0.2090  
-0.1798  
-0.1681  
-0.2443  
-0.1221  
-0.0396  
-0.2411  
-0.2341  
-0.2411  
-0.2892  
-0.4218  
-0.5518  
-0.0991  
-0.1197  
-0.1128  
-0.1094  
-0.0980  
-0.1128  
-0.1009  
-0.1037  
-0.0736  
-0.0312  
-0.1152  
-0.1426  
-0.0918  
-0.0834  
-0.0973  
-0.0985  
-0.0134  
-0.0110  
-0.5160  
-0.0200  
-0.0330  
-0.4018  
-0.4278  
-0.0406

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

(XEBL 72)

AMES 11-073(0A148) -140A/B/C ORB LEFT WING BOT

ALPHA ( 3 ) = 3.984 BETA ( 3 ) = 4.240

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.775							
.798							
.808							
.834							
.839							
.840							
.857							
.862							
.865							
.879							
.900							
.905							
.919							
.940							
.945							
.945							
.965							
1.000							

ALPHA ( 4 ) = 7.933 BETA ( 1 ) = -3.872 MACH = 1.2470 Q = 599.90 P = 551.11 RV/L = 3.0127

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.810							
.820							
.840							
.850							
.869							
.883							
.881							
.886							
.894							
.150							
.157							
.163							
.177							
.229							
.246							
.250							
.274							
.345							
.390							





## TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

(XEBL72)

AMES 11-073(0A148) -140A/B/C ORB LEFT WING BOT

ALPHA ( + ) = 7.9+0 BETA ( 2 ) = .173

SECTION ( 1 ) LEFT WING BOT SURF	DEPENDENT VARIABLE CP			
2716W	.2930	.3640	.4270	.5340
	.2516	.2482	.2835	.3050
X/C <sub>w</sub>	.081	.0341	.2382	.2098
	.086	.0054	.1522	.0269
	.034		.2271	.2507
	.152		.2179	.2840
	.157		.2119	.2979
	.163		.2360	.2139
	.279		.2101	.2000
	.240		-.5547	.0750
	.240		.1892	.1041
	.245		.0575	.0317
	.250		.0206	-.3522
	.250		.0113	-.3495
	.250		-.3789	-.3745
	.250		.0034	-.3569
	.250		-.4281	-.4536
	.250		-.3645	-.4750
	.250		-.4094	-.4664
	.250		-.1511	-.5024
	.250		-.3139	-.5420
	.250		-.3070	-.5420
	.250		-.3041	-.5420
	.250		-.4301	-.5420
	.250		-.1787	-.1959
	.250			-.3263

-.4350

-.5294

-.5420

-.5420

-.5420

-.5420

-.5420

-.5420

-.5420

-.5420

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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ALPHA ( 4 ) = 7.943 BETA ( 3 ) = 4.236 MACH = 1.2470 Q = 599.90 R  
 (XEBL72) = 551.11 RN/L = 3.6127

AMES 11-073(0A148) -140A/B/C ORB LEFT WING BOT

SECTION ( 1 ) LEFT WING BOT SURF

DEPENDENT VARIABLE CP

2Y/BL	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CM								
.010								
.020	-.3990	-.5337	.0659	.5166	.4850	.5296	.5339	
.030	.0000	-.3094	.2058	.4338	.4386	.4521	.4721	-.1955
.040		-.2429	.2639	.3511	.3470	.3625	.3969	
.050	-.1020							-.0875
.069				.2939				
.080			.2106					
.081		-.0397						
.086								
.094	-.0579			.2528	.2881	.3251	.3043	-.1008
.150								
.157		.1798	.2079					
.163								
.177	-.0176							
.229		.1319		.2379	.2788	.3010	.2390	
.246			.22					-.0014
.250								
.274		.1963		.2491	.2886		.2061	
.345			.2320					-.0460
.390				.2023	.2008			
.402			-.5122				.0637	
.550		.1898				.0907		-.4803
.565				.0601	.0335			
.580						-.3659	-.3858	
.637			.0216	-.3478	-.3718			
.650								
.670		.0075	-.3509					
.700								
.725								
.750								
.760								
.775								
.814								
.818								
.824								
.839								
.850	.0029	-.3597						
.857								
.862								
.865								
.879	-.3909	-.3643						-.5063
.900								
.902								
.905	-.1523							
.919		-.4693	-.5003					-.5401
		-.3052						

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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(XEBL72)

AMES 11-073(0A148) -140A/B/C ORG LEFT WING BOT

ALPHA ( 4 ) = 7.943 BETA ( 3 ) = 4.236

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.950

.953

.955

.965

1.000

-.3926

-.3552

-.4508

1.000

-.2817

-.4207

-.5297

-.5297

-.3655

ALPHA ( 5 ) = 12.023 BETA ( 1 ) = -3.855 MACH = 1.2460 Q = 599.73 P = 551.81 RW/L = 3.0130

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.910

.920

.940

.950

.959

.980

.981

.986

.994

.997

.997

.997

.997

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.997

.997

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.997

.997

.997

.997

.4110

.1591

.1105

.3844

.3512

.2869

.3500

.3843

.4292

.4454

.3838

.3771

.4049

.3342

.3660

.3058

.3038

.1821

.1912

.1017

.1315

-.3019

-.3300

.0838

.1515

.1003

.1821

.1912

.1017

.1315

-.3019

-.3300

.0838

.1515

.1003

.1821

.1912

.1017

.1315

-.3019

-.3300

.0838

.1515

.1003

.1821

.1912

.1017

.1315

-.3019

-.3300

.0838

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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(XEBL72)

ALPHA ( 5 ) = 12.023 BETA ( 1 ) = -3.855  
AMES 11-073(0A148) -140A/B/C ORB LEFT WING BOT

SECTION ( 1 ) LEFT WING BOT SURF	DEPENDENT VARIABLE CP
2Y/BW	.2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720
X/CW	
.775	
.798	
.808	
.834	
.839	
.850	
.857	
.862	
.865	
.879	
.900	
.905	
.919	
.920	
.952	
.955	
.965	
1.000	

SECTION ( 1 ) LEFT WING BOT SURF	DEPENDENT VARIABLE CP	Q	P	RN/L
2Y/BW	.2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720			
X/CW				
.010				
.020				
.040				
.050				
.069				
.080				
.081				
.086				
.094				
.150				
.157				
.163				
.177				
.223				
.246				
.250				
.271				
.345				
.393				

ALPHA ( 5 ) = 12.037 BETA ( 2 ) = .182 MACH = 1.2460	DEPENDENT VARIABLE CP	Q	P	RN/L
SECTION ( 1 ) LEFT WING BOT SURF	DEPENDENT VARIABLE CP			
2Y/BW	.2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720			
X/CW				
.010				
.020				
.040				
.050				
.069				
.080				
.081				
.086				
.094				
.150				
.157				
.163				
.177				
.223				
.246				
.250				
.271				
.345				
.393				

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 2910

(XEBL72)

AMES 11-073(0A148) -140A/B/C ORB LEFT WING BOT

ALPHA ( 5 ) = 12.037 BETA ( 2 ) = .182

SECTION ( 1 ) LEFT WING BOT SURF

DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.400								
.402			.3766	.3763	.4006		.3141	
.503								.0468
.550				.3055	.2979			
.565								
.600								
.637								
.650								
.670						.1713		
.700					.1166			
.725								
.750								
.760								
.775								
.798			.0732					
.809								
.834								
.879								
.880								
.887								
.882								
.865								
.879								
.800								
.805								
.910								
.910								
.914								
.915								
.905								
.900								

X/CW

.400

.402

.503

.550

.565

.600

.637

.650

.670

.700

.725

.750

.760

.775

.798

.809

.834

.879

.880

.887

.882

.865

.879

.800

.805

.910

.910

.914

.915

.905

.900

ALPHA ( 5 ) = 12.032 BETA ( 3 ) = 4.249 MACH = 1.2460 Q = 599.73 P = 551.81 RAV/L = 3.0130

SECTION ( 1 ) LEFT WING BOT SURF

DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010								
.020								
.030								
.040								
.050								
.060								
.070								
.080								
.090								
.100								

X/CW

.010

.020

.030

.040

.050

.060

.070

.080

.090

.100





DATE 10 FEB 75 TABULATED PRESSURE DATA - OA148 ( AMES 11-073-1 )

(XEBL73)

AMES 11-073(OA148) -140A/B/C ORB LEFT WING BOT

ALPHA ( 1 ) = -3.958 BETA ( 1 ) = -3.850

SECTION ( 1 ) LEFT WING BOT SURF	DEPENDENT VARIABLE CP
2Y/84	.2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720
X/CW	
.857	-.6654
.852	
.865	
.879	-.6625
.900	-.4785
.915	-.4703
.919	-.4293
.920	-.4448
.923	-.5619
.925	-.3922
.965	-.4151
1.000	-.3575
	-.4118
	-.2674
	-.2707
	-.2593

ALPHA ( 2 ) = -3.953 BETA ( 2 ) = .190 MACH = 1.1008 Q = 600.93 R = 707.91 RN/L = 3.1821

SECTION ( 1 ) LEFT WING BOT SURF	DEPENDENT VARIABLE CP
2Y/84	.2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720
X/CW	
.810	-.1342
.820	-.1608
.830	-.0957
.840	-.1342
.850	-.1658
.860	-.1484
.870	-.2331
.880	-.1356
.890	
.900	-.0541
.910	-.1789
.920	-.6304
.930	
.940	-.0541
.950	-.1350
.960	
.970	.0229
.980	-.1691
.990	
1.000	-.1057
	-.0826
	-.1833
	-.2177
	-.5765
	-.7312
	-.1432
	-.1064
	-.1226
	-.1180
	-.3861
	-.1029
	-.1192
	-.1459
	-.5633
	-.1299
	-.6661
	-.8424
	-.4867
	-.8784
	-.9094
	-.6095
	-.8448
	-.8731
	-.8685
	-.8731
	-.8784
	-.7921
	-.4867



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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 2914

(XEBL73)

AMES 11-073(0A148) -140A/B/C ORB LEFT, NG 6-T

ALPHA ( 1 ) = -3.953 BETA ( 2 ) = .190

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/8W .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.637	-.1149	-.1621	-.5673
.650			
.670			
.700		-.2179	
.725			
.750		-.2275	-.5112
.760			-.7310
.775		-.6034	
.798		-.5303	
.808			
.834		-.0857	
.839		-.1327	
.850		-.7683	
.857	-.1714	-.6098	
.859			
.862		-.6901	
.865		-.6048	-.6142
.873		-.6992	
.879			-.7723
.885			
.893	-.6347		
.900	-.4928	-.4944	-.6234
.905			
.913	-.5373	-.5013	
.920		-.5058	-.7261
.923		-.4310	
.925		-.4409	
.926	-.3914		
.935	-.5833		
.965		-.3077	-.2706
1.000			-.3009

ALPHA ( 1 ) = -3.960 BETA ( 3 ) = 4.266 MACH = 1.1008 Q = 600.53 P = 707.91 RN/L = 3.1821

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/8W .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.010	-.1332	-.0614	.0610	-.5732	-.7724	-.6370	-.6508
.020	.0000	-.0538	.0298	-.6968	-.8115	-.8559	-.8790
.040		-.0309	-.0900				-.7923
.050	-.1011			-.5518	-.7482	-.8312	-.8404
.059							-.6970
.069				-.2813			
.081							
.082							
.094		.0420					
.1051	-.1051			-.2099	-.2977	-.5988	-.7816
.152							-.3613
.157							
.163		.1113					



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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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(XEBL73)

AMES 11-073(0A148) -140A/B/C ORG LEFT WING BOT

RN/L = 3.1830

P

= 708.37

= 599.94

O

= 1.1000

MACH

= -3.869

BETA ( 1 )

= .047

ALPHA ( 2 )

= .047

SECTION ( 1 ) LEFT WING BOT SURF

DEPENDENT VARIABLE CP

2Y/BA	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.0490	-.0069	.2159	-.3314	-.4642	-.3977	-.3075	
.020	.0000	-.0409	.1342	-.4793	-.5528	-.5567	-.5978	-.4163
.040		-.0288	-.0578					
.050	-.0875			-.3099	-.4559	-.5607	-.5997	-.4175
.069								
.080				-.2540				
.081								
.095		.0219						
.094								
.150								
.157								
.163		.0833		-.1650	-.2121	-.3671	-.4585	-.1597
.177								
.229	-.0766		-.0817					
.246		-.0352						
.250				-.0619	-.1053	-.0946	-.0882	
.274			-.0459					
.245								
.290		-.0269						
.400			.0084	.0016	.0166		-.0181	-.0714
.402								
.503				-.0026	-.0341			-.1216
.550			-.5377					
.595								
.600								
.637		-.0343						
.650								
.670								
.700								
.723				-.1382				
.750								
.760								
.775			-.0335					
.793		-.0594		-.5477	-.3886			
.813			-.7047					
.834	-.1355							
.839		-.5707						
.850								
.851								
.862				-.6780	-.6175	-.5367		-.3888
.885	-.5862							
.875		-.6172						
.900	-.4097							
.914				-.4743				-.3155
.919		-.4212						
		-.3836						





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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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(XEBL73)

AMES 11-073(0A148) -140A/B/C ORB LEFT WING BOT

ALPHA ( 3 ) = .045 BETA ( 3 ) = 4.245

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW .2930 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.400  
.402  
.503  
.550  
.555  
.600  
.637  
.650  
.670  
.700  
.725  
.750  
.760  
.775  
.798  
.808  
.834  
.839  
.850  
.857  
.862  
.865  
.879  
.900  
.919  
.940  
.944  
.945  
.945  
1.000

.0256 .0295  
.0406  
-.0229 -.0473  
-.5005  
-.0151  
-.1569  
-.0537  
-.0830  
-.5550  
-.6385  
-.5765  
-.4386  
-.4798  
-.2970  
-.2880  
-.2845

-.0410  
-.1844  
-.1495  
-.1321  
-.1750  
-.5317 -.7254  
-.5710 -.4594  
-.6969 -.5838 -.7157  
-.4350  
-.3814  
-.4143  
-.4798  
-.2970  
-.2880  
-.2845

-.4443  
-.4009  
-.4350  
-.3814  
-.4143  
-.4798  
-.2970  
-.2880  
-.2845

ALPHA ( 3 ) = 4.012 BETA ( 1 ) = -3.872 MACH = 1.0398 O = 599.99 P = 708.60 RN/L = 3.1803

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW .2930 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.400  
.402  
.503  
.550  
.555  
.600  
.637  
.650  
.670  
.700  
.725  
.750  
.760  
.775  
.798  
.808  
.834  
.839  
.850  
.857  
.862  
.865  
.879  
.900  
.919  
.940  
.944  
.945  
.945  
1.000

.0231 .1027 .1940 .2549  
.0612 .0894 .1006 .1087  
.0583 .0446 .0771 .1040  
.0469

.2031 .1027 .1940 .2549  
.0612 .0894 .1006 .1087  
.0583 .0446 .0771 .1040  
.0469

(54783X)

AMES 11-073(OA148) -140A/B/C ORB LEFT WING BOT

ALPHA ( Z ) = 4.012      BETA ( I ) = -3.872

SECTION : 1 LEFT WING BOT SURF

2Y/8W	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
-------	-------	-------	-------	-------	-------	-------	-------	-------

33/K

081	.1361				
085	.1193				
090		.1123	.1246	.1380	.1008
100					-.0532
107					
113					
117					
209	.0897				
216					
220	.1008				
230		.1483	.1413	.1345	.0691
305		.1523			
310					-.0057
315	.1629		.1689		.0829
319					
323	.1837				-.0772
330		.0918	.0691		
338		-.5951			
340					
347					
350	.0948			-.0158	-.5661
353					
359					
360		-.0760			
363					
369		-.0082		-.5040	-.5855
370					
373					
379		-.5049	-.4172		
380					
388	-.0180				
390		-.6422			
395					
400					
403	-.0903				
409					
410					
415					
420					
423					
429					
430					
433					
439					
440					
443					
449					
450					
453					
459					
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583					
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613					
619					
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623					
629					
630					
633					
639					
640					
643					
649					
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660					
663					
669					
670					
673					
679					
680					
683					





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TABULATED PRESSURE DATA - 0A149 ( AMES 11-073-1 )

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(XEBL73)

ALPHA ( 3 ) = 4.014 BETA ( 2 ) = .182

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BA .2990 .3540 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.950  
 .953  
 .955  
 .965  
 1.000

- .3480 - .5642 - .3156

- .3448

- .3921

- .6197

1.000

- .2337 - .2261 - .2352

ALPHA ( 3 ) = 4.006 BETA ( 3 ) = 4.238 MACH = 1.0998 Q = 599.99 P = 708.60 RV/L = 3.1803

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BA .2990 .3540 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.310  
 .020  
 .040  
 .050  
 .069  
 .080  
 .091  
 .086  
 .094  
 .150  
 .157  
 .163  
 .177  
 .229  
 .246  
 .250  
 .274  
 .345  
 .340  
 .400  
 .402  
 .503  
 .550  
 .555  
 .500  
 .637  
 .640  
 .670  
 .700  
 .725  
 .750  
 .760

-.3573 -.3324 .4090 .3764 .2701 .3140 .3346  
 .0000 -.1747 .4376 .2755 .2302 .2280 .2142  
 -.1692 -.1244 .3372 .2213 .1676 .1641 .1721  
 .0769 .2552 .1915 .1789 .1744 .1665 .1158  
 .2837 .1996 .1698 .1518 .1524 .0641  
 .1833 .1884 .1607 .1584 .0567  
 .1934 .1808 .0899 .0597  
 .0873 .5719 .0819  
 .0528 .6249  
 .0678 .5420 .6156  
 .0221

- .0976

- .1091

- .1110

- .1628

- .0819

- .6249

- .5420 - .6156

- .0221





DATE 10 FEB 76      TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )  
 ALPHA ( 4 ) = 7.984    BETA ( 2 ) = .174    AMES 11-073(0A148) -140A/B/C    ORB LEFT WING BOT

(XEBL73)

SECTION ( 1 ) LEFT WING BOT SURF      DEPENDENT VARIABLE CP

2Y/8W	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CM								
.081			.3834					
.086		.0099						
.094	-.0520			.3359	.3551	.3578	.2878	
.150								
.157								
.163		.3467						-.0827
.177			.3312					
.229	-.0284							
.246		.2719						
.250				.3169	.3158	.3006	.2241	
.274			.3093					
.345		.2977						-.0214
.390								
.400				.2706	.2735		.1678	
.402			.2909					
.503				.1805	.1609			-.0681
.550								
.565			-.7041					
.600		.1795				.0142		
.637					.0265			
.650								
.670								-.5744
.700				.0039	-.0133			
.725								
.750			.0004			-.4967	-.5579	
.775				-.4819	-.5291			
.798		-.0015						
.808			-.5902					
.834								
.839	-.0398	-.5033						
.850								
.857				-.6120	-.4704	-.6180		
.862								
.865								
.873	-.5389	-.4678						-.4616
.900								
.905	-.2635		-.5527				-.6874	
.919		-.4390						
.930								
.953				-.3411	-.5052	-.6936		
.955			-.3135					
.965		-.4566						
.980	-.5993							
.981			-.2081		-.2428			-.3499
1.000								

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STABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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(XEBL 73)

AMES 11-073(OA148) -140A/B/Ç GRB LEFT WING BOT

**RN/L = 3.1794**

**708.36**

**3.1794**

SECTION : 1) LEFT WING BOT SURF

DEPENDENT VARIABLE CP

2Y/DM	.2990	.3640	.4270	.5340	.6730	.7800	.9870	.9720
-------	-------	-------	-------	-------	-------	-------	-------	-------

**MC/X**

0.010	- .5579	- .4557	.1933	.5945	.5473	.5539	.5199
0.020	.0000	- .3603	.3488	.5310	.5045	.5010	.4696
0.040		- .2867	.4298				
0.050	- .1915			.4532	.4252	.4150	.3939
0.069							- .2003
0.080				.3968			
0.081		- .0228	.3974				
0.086							
0.094	- .1301						
0.150				.3457	.3491	.3424	.2683
0.157							
0.163		.3422	.3492				- .1262
0.177							
0.229	- .0692						
0.245		.3005					
0.250				.3087	.3016	.2866	.1987
0.274			.3139				
0.345		.3069					- .0821
0.390				.2571	.2583		.1432
0.400			.2818		.1444		- .1210
0.402							
0.503				.1670			
0.550		- .6465					
0.555						.0055	- .6012
0.600		.1687					
0.637							
0.640							
0.670							
0.700				- .0003	- .0128		
0.725							
0.750						- .5102	- .5617
0.780			- .0111				
0.775				- .5008	- .5224		
0.798		- .0124					
0.818			- .5993				
0.834	- .0501						
0.839		- .5141					
0.850							
0.857			- .5416	- .6121	- .4447	- .6143	
0.862							- .4871
0.865	- .5432						
0.879		- .4406					
0.900	- .2802		- .5752	- .5461			- .7058
0.905							
0.919		- .4542					

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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(XEBL73)

ALPHA ( 4 ) = 7.984 BETA ( 3 ) = 4.233

AMES 11-073(0A148) -140A/B/C ORB LEFT WING BOT

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BN .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.950  
.953  
.955  
.953  
1.000

-.4972  
-.3585  
-.3615  
-.5479  
-.6429

-.6385

-.1923

-.2653

-.4128

ALPHA ( 5 ) = 12.067 BETA ( 1 ) = -3.848 MACH = 1.0997 Q = 599.84 P = 708.81 RN/L = 3.1785

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BN .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.010

.020

.040

.050

.059

.090

.081

.036

.094

.150

.157

.163

.177

.229

.246

.250

.274

.345

.390

.400

.422

.503

.550

.555

.500

.637

.650

.670

.745

.753

.763

-.2848

-.5733

.0000

-.2047

-.1247

.0157

.059

.081

.150

.157

.163

.177

.229

.246

.250

.274

.345

.390

.400

.422

.503

.550

.555

.500

.637

.650

.670

.745

.753

.763

.2419

.7494

.7017

.7152

.7102

.6645

.6873

.7369

.7102

.6645

.6873

.7369

.7102

.6645

.6873

.7369

.7102

.6645

.6873

.7369

.7102

.6645

.6873

.7369

.7102

.6645

.6873

.7369

.7102

.6645

.6873

.7369

DATE 10 FEB 76

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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(XEBL73)

AMES 11-073(0A148) -140A/B/C ORB LEFT WING BOT

ALPHA ( 5 ) = 12.067 BETA ( 1 ) = -3.848

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.775							
.798							
.808							
.834							
.833							
.850							
.857							
.862							
.865							
.879							
.900							
.905							
.919							
.950							
.953							
.955							
.965							
1.000							

-4.713

ALPHA ( 5 ) = 12.077 BETA ( 2 ) = .180 MACH = 1.0997 Q = 599.84 P = 708.61 RN/L = 3.1785

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.010							
.020							
.040							
.100							
.103							
.180							
.186							
.194							
.150							
.157							
.163							
.177							
.209							
.246							
.250							
.274							
.345							
.390							

REPRODUCIBILITY OF THE  
ORIGINAL PAGE IS POOR

DATE 10 FEB 76

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 2929

(XEBL73)

ALPHA ( 5 ) = 12.077 BETA ( 2 ) = .180

SECTION ( 1 ) LEFT WING BOT SURF

DEPENDENT VARIABLE CP

AMES 11-073-1 (148) -140A/B/C ORB LEFT WING BOT

2Y/BW	2900	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CM	.400							
	.402		.3890	.3668	.3652		.2444	
	.503							
	.550			.2569	.2335			-.0203
	.565		-.7530					
	.600							
	.637							
	.650	.2531				.0773		
	.670					.1149		
	.700				.0592			-.6331
	.725		.0143		.0728	-.4594	-.5147	
	.750			-.4649				
	.760							
	.775	.0114						
	.798		-.5128					
	.808	-.0004						
	.834		-.4813					
	.839							
	.850			-.5604	-.6036	-.5803		
	.857		-.5250					-.5067
	.862							
	.865							
	.879		-.4386					
	.900	-.2110		-.6415			-.6493	
	.905		-.5763					
	.919		-.3947					
	.950			-.5432	-.6105	-.6912		
	.953		-.4976					
	.975		-.4546					
	.985	-.5561						
	1.000		-.2123	-.2749		-.5448		

ALPHA ( 5 ) = 12.076 BETA ( 3 ) = 4.245 MACH = 1.0997 0 = 599.84 P = 708.61 RN/L = 3.1785

SECTION ( 1 ) LEFT WING BOT SURF

DEPENDENT VARIABLE CP

2Y/BW	2900	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CM	.400							
	.402		.3894	.3782	.5867	.5202	.4760	
	.503		-.4631	.6106	.6047	.5852	.5174	-.4793
	.550		-.3692	.4001				
	.565			.5704	.5664	.5430	.4927	
	.600							-.2688
	.637							
	.650							
	.670							
	.700							
	.725							
	.750							
	.760							
	.775							
	.798							
	.808							
	.834							
	.839							
	.850							
	.857							
	.862							
	.865							
	.879							
	.900							
	.905							
	.919							
	.950							
	.953							
	.975							
	.985							
	1.000							



DATE 10 FEB 76

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 2930

(XEBL73)

ALPHA ( 5 ) = 12.076 BETA ( 3 ) = 4.245  
 AMES 11-073(0A148) -14QA/B/C ORB LEFT WING BOT

SECTION ( 1 ) LEFT WING BOT SURF	DEPENDENT VARIABLE CP			
2Y/8W	.2990	.3540	.4270	.5340 .6730 .7800 .8870 .9720
X/CN				
.031			.4621	
.035	-.0255			
.091	-.0981		.4600	.4741 .4639 .3718 -.1551
.150		.3588		
.157			.4438	
.163				
.177	-.0041			
.229		.3616		
.246			.4120	
.250				
.250		.3915		
.250			.4083	.4069 .3898 .2975
.250			.3428	.3423 .2104
.250			.3667	
.250			.2424	.2151
.250			-.6931	
.250		.2365		.0507
.250				.0938
.250			.0609	.0430
.250				-.4837 -.5253
.250			-.0019	
.250			-.4779	-.4980
.250	-.0035			
.250		-.5184		
.250	-.0180			
.250		-.4897		
.250			-.5656	-.5926 -.5819
.250			-.5151	
.250	-.5122			
.250		-.3923		
.250	-.2223			
.250		-.5165		
.250		-.4011		
.250			-.6152	-.5518 -.6943
.250		-.4938		
.250	-.6011			
.250			-.4508	
.250			-.2415	
.250				-.3197
.250				-.6193

DATE 10 FEB 76

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 2931

(XEBL74) ( 05 AUG 75 )

REFERENCE DATA

SREF = 2500.0000 50. FT.  
LREF = 474.0000 IN.  
BREF = 936.0000 IN.  
SCALE = .0200

PARAMETRIC DATA

RUDDER = -5.000  
BOFLAP = 16.300  
R-ELVN = -10.000  
SPDRK = 55.000  
L-ELVN = -10.000  
MACH = .900

ALPHA ( 1 ) = -3.998  
BETA ( 1 ) = -3.854  
MACH = .90080  
Q = 600.60  
P = 1057.3  
RN/L = 3.5738

SECTION ( 1 ) LEFT WING BOT SURF

DEPENDENT VARIABLE CP

2Y/EA .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/C

.010	-.1315	-.2961	-.5031	-1.0932	-1.2591	-1.0243	-1.0559
.020	.0000	-.2535	-.5410	-1.2699	-1.3187	-1.3371	-1.3472
.040	-.1260	-.2279	-.6661	-1.1674	-1.3142	-1.3793	-1.3823
.050				-1.0680			-1.1990
.060	-.1140	-.1124	-.4856				
.070				-.6313	-1.1543	-1.2352	-1.2614
.080	-.1657	-.1657	-.4711				-.5966
.090	-.0472	-.3127					
.100			-.3740	-.4048	-.4959	-.9720	-1.1788
.110	-.3359						-.7128
.120		-.2557	-.2708	-.2700		-.3950	
.130		-.7691	-.3070	-.2353			-.6391
.140	-.2907					-.1944	
.150					-.2109		-.0338
.160		-.2617					
.170			-.1897				-.7118
.180			-.6073	-.8113			-1.0269
.190	-.2554	-.2550					
.200		-.6930					
.210	-.9311						
.220							
.230							
.240							
.250							
.260							
.270							
.280							
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.850							
.860							
.870							
.880							
.890							
.900							
.910							
.920							
.930							
.940							
.950							
.960							
.970							
.980							
.990							
1.000							

-.4747 -.6819 -.5919



DATE 10 FEB 76 TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )  
 AMES 11-073(0A148) -140A/B/C ORB LEFT WING BOT (XEBL74)

ALPHA ( 1 ) = -3.915 BETA ( 2 ) = .189

SECTION 1 INLET WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW .2990 .3540 .4270 .5340 .6730 .7800 .8870 .9720

X/CW	CP
.637	-.2887
.650	
.670	-.7869
.700	
.725	-.3260
.750	
.760	-.2282
.775	
.798	-.5872
.823	-.6482
.834	
.839	-.3057
.850	
.857	-.9223
.862	
.865	-.4889
.873	
.880	-.9804
.890	
.900	-.4936
.905	
.913	-.6302
.920	
.925	-.4248
.930	
.933	-.4829
.935	
.955	-.3880
1.000	
	-.3574
	-.2772
	-.4254
	-.5472
	-.5147
	-.4533
	-.5159
	-.4636
	-.6522
	-.5796
	-.8560

ALPHA ( 1 ) = -3.961 BETA ( 3 ) = 4.266 MACH = .90080 Q = 600.60 P = 1057.3 RN/L = 3.5738

SECTION 1 INLET WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW	CP
.610	.0171
.620	.0053
.630	-.1513
.640	-.10380
.650	-.2865
.660	-.13887
.670	-.3126
.680	-.11551
.690	-.9313
.700	-.6002
.710	.0273
.720	-.3104
.730	-.6871
.740	-.12393
.750	-.11226
.760	-.6827
.770	-.5672
.780	-.5353
.790	-.2955
.800	-.0429
.810	-.0027
.820	-.4292
.830	-.5017
.840	-.9211
.850	-.8650
.860	-.3326
.870	
.880	
.890	
.900	
.910	
.920	
.930	
.940	
.950	
.960	
.970	
.980	
.990	
1.000	

(4283X)

AMES 11-073(0A148) -140A/B/C ORB LEFT WING BOT

ALPHA ( 1 ) = -3.951      BETA ( 3 ) = 4.266

SECTION	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100

2Y/8W	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
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**X/CX**

[illegible]

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

**PAGE 2935**

ALPHA ( 2 )	BETA ( 1 )	MACH	Q	P	ORB LEFT WING BOT (XEBL74)
.055	-3.868	.90127	0	600.67	
					RN/L = 1058.4
					= 3.5726

(42-783X)

SECTION ( ) LEFT WING BOT SURF

2Y/8W	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
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**PCJ/X**

.010	.0393	.0891	.0924	-.6751	-.8397	-.7712	-.6605
.020	.0000	.0737	-.0122	-.6471	-.8038	-.7988	-.9420
.040		.0846	-.1783				-.3339
.050	.0086			-.5390	-.6209	-.7309	-.8138
.060				-.3649			-.3791
.080			-.2049				
.081		.0922					
.086	-.0054						
.094				-.2184	-.2286	-.2745	-.2802
.150							
.157		.0227					-.2118
.163			-.1826				
.177							
.229	.0307						
.246		-.1351					
.250				-.1576	-.2131	-.2420	-.2567
.274			-.1323				
.345							-.1621
.390		-.1157		-.1319	-.1423		-.1956
.400			-.0934				-.2040
.402				-.2028	-.2162		
.503			-.8396				
.550							-.2664
.555							
.600							
.637		-.1942				-.2883	-.7102
.640							
.670					-.2980		
.700				-.3033			
.725							
.750			-.1840			-.6263	-.11229
.760				-.6050	-.8257		
.775		-.2309					
.799			-.8977				
.809							
.834	-.2590						
.839		-.9459					
.850							
.857							
.862			-.4263	-.4618	-.5582	-.5375	
.865	-.9510						-.5215
.879		-.7637					
.900	-.5664			-.5072			-.4228
.905			-.4725				
.919		-.3771					

DATE 10 FEB 76

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 2986

AMES 11-073(0A148) -140A/B/C ORB LEFT WING BOT

(XE8L74)

ALPHA ( 2 ) = .055 BETA ( 1 ) = -3.868

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.950 -.5272 -.4572 -.4988

.953 -.4616

.955 -.3643

.965 -.2798

1.000

-.3140

-.2514

-.2826

ALPHA ( 2 ) = .084 BETA ( 2 ) = .180 MACH = .90127 Q = 600.67 P = 1056.4 RN/L = 3.5726

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.010

.020

.040

.050

.060

.080

.090

.100

.110

.120

.130

.140

.150

.160

.170

.180

.190

.200

.210

.220

.230

.240

.250

.260

.270

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.400

.410

.420

.430

.440

.450

.460

.470

.480

.490

.500

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.550

.560

.570

.580

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.800

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.850

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.870

.880

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.900

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.930

.940

.950

.960

.970

.980

.990

1.000





DATE 10 FEB 76

TABULATED PRESSURE DATA - OA148 ( AMES 11-073-1 )

PAGE 2938

(XEBL74)

ALPHA ( 2 ) = .055 BETA ( 3 ) = 4.248 AMES 11-073(OA148) -140A/B/C ORB LEFT WING BOT

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.400  
.402  
.503  
.550  
.555  
.600  
.637  
.650  
.670  
.700  
.725  
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.915  
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1.000

-.0863  
-.1291  
-.1514  
-.2185  
-.2147  
-.2357  
-.1945

-.1917  
-.8647  
-.2826

-.3361  
-.3420  
-.3051  
-.6097  
-1.0708

-.6744  
-.6097  
-1.0708

-.1954  
-.5455  
-.8116

-.2520  
-.8436  
-.4908

-.2834  
-.9291  
-.4612  
-.4326  
-.5444  
-.4908

-.9316  
-.4778  
-.4592  
-.4422

-.6281  
-.4146  
-.4887  
-.4184  
-.4747

-.3331  
-.3329  
-.2952  
-.3303

ALPHA ( 3 ) = 4.001 BETA ( 1 ) = -3.875 MACH = .90140 Q = 601.01 P = 1056.6 RV/L = 3.5771

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW .2330 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.010  
.020  
.020  
.040  
.050  
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1.000

DATE 10 FEB 76

TABULATED PRESSURE DATA - OA148 ( AMES 11-073-1 )

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(XEBL74)

AMES 11-073(OA148) -140A/B/C ORB LEFT WING BOT

ALPHA ( 3 ) = 4.001 BETA ( 1 ) = -3.875

SECTION ( 1 ) LEFT WING BOT SURF	DEPENDENT VARIABLE CP			
2Y/BW	.2990	.3640	.4270	.5340 .6730 .7808 .8870 .9720
X/CW	.0613			
.081				
.085				
.094				
.150				
.157				
.163				
.177				
.229				
.246				
.250				
.274				
.345				
.390				
.400				
.402				
.403				
.430				
.555				
.600				
.637				
.650				
.670				
.700				
.725				
.750				
.750				
.775				
.798				
.808				
.834				
.839				
.850				
.857				
.862				
.865				
.873				
.920				
.925				
.919				
.950				
.953				
.955				
.960				
1.000				

-.2055



DATE 10 FEB 76

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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(XEBL74)

AMES 11-073(0A148) -140A/B/C ORB LEFT WING BOT

ALPHA ( 3 ) = 4.079 BETA ( 2 ) = .183

SECTION ( 1 ) LEFT WING BOT SURF

DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CH

.950 -.4924 -.3866 -.3607

.953 -.4391

.955 -.3473

.965 -.2834

1.000

-.3269 -.2152 -.2279

ALPHA ( 3 ) = 4.001 BETA ( 3 ) = 4.242 MACH = .90140 Q = 601.01 P = 1056.6 RN/L = 3.5771

SECTION ( 1 ) LEFT WING BOT SURF

DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CH

.010

.010

.040

.050

.069

.080

.081

.086

.094

.150

.157

.163

.177

.229

.246

.250

.274

.345

.390

.400

.402

.503

.550

.565

.600

.637

.650

.670

.700

.725

.750

.760

-.2022 -.1436 .3038 .2418 .1394 .1901 .1777

.0000 -.0014 .3277 .1281 .1036 .0826 .0597

-.0314 .0482 .2331 .0790 .0280 .0056 -.0080

.069 .080 .081 .0478

.086 .094 .150 .157

.163 .177 .229 .246

.250 .274 .345 .390

.400 .402 .503 .550

.565 .600 .637 .650

.670 .700 .725 .750

.760

.0282 .0089 -.0072 -.0912

.0135 -.0238 -.0502 -.1362

.0397

.0709

.0146

-.0263 -.0466 -.1616

-.1344 -.1690

-.9355

-.1209

-.3227

-.3060

-.2520

-.2151

-.1606

-.7585

-.9507

-.8075

-.3216

-.3127

-.2472

-.3108

DATE 10 FEB 76

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

(XEBL 74)

AMES 11-073(0A148) -140A/B/C ORB LEFT WING BOT

ALPHA ( 3 ) = 4.001 BETA ( 3 ) = 4.242

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.775	-5737	-7152					
.799							
.808	-1983	-8730					
.834	-2353						
.839	-9073						
.850		-4340					
.857			-4367	-5572	-4850		-3079
.862							
.865	-8624						
.879	-4575		-4483				-3886
.903	-5980						
.905		-4344					
.919	-3766		-4761	-3938	-3640		
.950		-4290					
.953	-3572						
.955							
1.000	-3402	-3248		-2468			-2631

ALPHA ( 4 ) = 7.933 BETA ( 1 ) = -3.872 MACH = .90130 Q = 600.85 P = 1058.6 RN/L = 3.5771

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.010	-1620	-1700	.4205	.4947	.4476	.5014	.4700
.020	.0000	.0549	.4712	.3686	.3833	.3823	.3551
.040		.1260	.3816				
.050	.0452			.2674	.2668	.2616	.2466
.069				.2160			
.080			.2667				
.086		.2859					
.094	.0846			.1800	.1850	.1811	.1022
.150							
.157							
.163		.3283					
.177			.1876				
.229	.1603						
.246		.1861					
.250				.1481	.1266	.1012	.0281
.274			.1535				
.345							
.390							

-1805

REPRODUCIBILITY OF THE  
ORIGINAL PAGE IS POOR

DATE 10 FEB 76 TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

(XEBL74)

AMES 11-073(0A148) -140A/B/C ORB LEFT WING BOT

ALPHA ( 4 ) = 7.933 BETA ( 1 ) = -3.872

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BL .2930 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW							
.400			.0848	.0759		-.0308	
.402		.1211					-.2206
.503			-.0349	-.0631			
.550							
.565		-.6177				-.2156	
.600							
.637		-.0347			-.1899		-.6623
.650							
.670							
.700				-.2116			
.725					-.8153	-1.0089	
.750		-.1132					
.760			-.5720	-.7533			
.775							
.798		-.1332					
.808			-.9588				
.834	-.1786						
.839		-.9088					
.850					-.4515	-.5430	
.857			-.4692				-.3971
.862							
.865	-.9098						
.879		-.4745				-.3962	
.900	-.5992		-.4720				
.905				-.4171			
.919		-.3446			-.4944	-.4158	-.4793
.950			-.4041				
.953							
.955		-.3081					
.955	-.2461				-.2480		-.3083
1.000		-.2980					

ALPHA ( 4 ) = 8.028 BETA ( 2 ) = .177 MACH = .90130 Q = 600.85 P = 1056.8 RN/L = 3.5771

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BL .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW							
.010	-.3574	-.3922	.2758	.4949	.4294	.4628	.4155
.020	.0000	-.0959	.3048	.3871	.3744	.3728	.3285
.040		-.0076	.3653				
.050	-.0412		.2911	.2616	.2542	.2262	
.059							-.3272
.080				.2345			

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )  
 AMES 11-073(0A148) -140A/B/C ORB LEFT WING BOT

(XEBL74)

SECTION ( 1 ) LEFT WING BOT SURF	ALPHA ( 4 ) = 8.028	BETA ( 2 ) = .177	DEPENDENT VARIABLE CP
2Y/84	.2990	.3640	.4270 .5340 .6730 .7800 .8870 .9720
X/CM			
.081		.2703	
.086	.2186		
.094	.0320	.1823	.1824 .1636 .0791
.150			
.157	.3155		
.163		.1944	
.177			
.229	.1275		
.246		.1403	.1238 .0926 .0036
.250		.1516	
.274			
.345	.1491	.0754	.0590 -.0692
.390		.1101	
.402			
.503		-.0401	-.0722
.510		-.6535	
.559			
.600	-.0396		-.1994
.637			
.653			
.670			
.700		-.1413	-.2044
.725			
.750			
.760		-.1212	-.6151
.775			
.798			
.808		-.1420	
.834			
.839	-.1826		
.850			
.857			
.862			
.855			
.879			
.900			
.905			
.919			
.950			
.953			
.955			
.965			
.000			

-.3965

-.4253

-.4847

-.3474





DATE 10 FEB 76

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 2946

(XEBL74)

AMES 11-073(0A148) -140A/B/C ORB LEFT WING BOT

ALPHA ( 4 ) = 8.031 BETA ( 3 ) = 4.23E

SECTION ( 1 ) LEFT WING BOT SURF

DEPENDENT VARIABLE CP

2Y/BA .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.950 -.4841 -.4197 -.4616

.953 -.4162

.955 -.3439

1.000 -.4376

-.3052

-.2832

-.3384

RV/L = 3.5829

P = 1056.9

Q = 601.36

MACH = .90157

SECTION ( 5 ) = 11.980 BETA ( 1 ) =

DEPENDENT VARIABLE CP

2Y/BA .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.010 -.4752

.020 -.5579

.030 -.6326

.040 -.7073

.050 -.7820

.060 -.8567

.070 -.9314

.080 -.0169

.090 .061

.100 .1358

.110 .2105

.120 .2852

.130 .3599

.140 .4346

.150 .5093

.160 .5840

.170 .6587

.180 .7334

.190 .8081

.200 .8828

.210 .9575

.220 .0322

.230 .1069

.240 .1816

.250 .2563

.260 .3310

.270 .4057

.280 .4804

.290 .5551

.300 .6298

.310 .7045

.320 .7792

.330 .8539

.340 .9286

.350 .0033

.360 .0780

.370 .1527

.380 .2274

.390 .3021

.400 .3768

.410 .4515

.420 .5262

.430 .6009

.440 .6756

.450 .7503

.460 .8250

.470 .9000

.480 .9750

.490 .0500

.500 .1250

.510 .2000

.520 .2750

.530 .3500

.540 .4250

.550 .5000

.560 .5750

.570 .6500

.580 .7250

.590 .8000

.600 .8750

.610 .9500

.620 .0250

.630 .1000

.640 .1750

.650 .2500

.660 .3250

.670 .4000

.680 .4750

.690 .5500

.700 .6250

.710 .7000

.720 .7750

.730 .8500

.740 .9250

.750 .0000

.760 .0750

.770 .1500

.780 .2250

.790 .3000

.800 .3750

.810 .4500

.820 .5250

.830 .6000

.840 .6750

.850 .7500

.860 .8250

.870 .9000

.880 .9750

.890 .0500

.900 .1250

.910 .2000

.920 .2750

.930 .3500

.940 .4250

.950 .5000

.960 .5750

.970 .6500

.980 .7250

.990 .8000

.1000 .8750



DATE 10 FEB 76 TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

(XEBL74)

ALPHA ( 5 ) = 12.020 BETA ( 2 ) = .183

AMES 11-073(0A148) -140A/B/C ORB LEFT WING BOT

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.400 .1704 .1601 .0310

.402 .2039

.503 .0403 .0118 -.2588

.550 .5837

.600 .0469

.637 .0469

.650 .0469

.670 .0469

.700 .0469

.725 .0469

.750 .0469

.760 .0469

.775 .0469

.790 .0469

.808 .0469

.834 .0469

.839 .0469

.850 .0469

.857 .0469

.862 .0469

.865 .0469

.879 .0469

.900 .0469

.925 .0469

.919 .0469

.950 .0469

.953 .0469

.955 .0469

.965 .0469

1.000 .0469

ALPHA ( 5 ) = 12.054 BETA ( 3 ) = 4.256 MACH = .90157 Q = 601.36 P = 1056.9 RNU = 3.5829

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.400 .1704 .1601 .0310

.402 .2039

.503 .0403 .0118 -.2588

.550 .5837

.600 .0469

.637 .0469

.650 .0469

.670 .0469

.700 .0469

.725 .0469

.750 .0469

.760 .0469

.775 .0469

.790 .0469

.808 .0469

.834 .0469

.839 .0469

.850 .0469

.857 .0469

.862 .0469

.865 .0469

.879 .0469

.900 .0469

.925 .0469

.919 .0469

.950 .0469

.953 .0469

.955 .0469

.965 .0469

1.000 .0469

DATE 10 FEB 76

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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(XEBL74)

ALPHA ( 5 ) = 12.054 BETA ( 3 ) = 4.256  
 AMES 11-073(0A148) -140A/B/C ORB LEFT WING BOT

SECTION ( 1 ) LEFT WING BOT SURF	DEPENDENT VARIABLE CP							
2Y/BL	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.081			.3354					
.086		.1082						
.094	-.0632			.2871	.2971	.2800	.1764	
.150								-.2721
.157		.3172						
.163			.2933					
.177								
.229	.1122							
.246		.2462		.2332	.2184	.1927	.0964	
.250			.2438					-.2551
.274								
.345		.2334		.1526	.1379		-.0028	
.390			.1857					-.3158
.400				.0302	-.0035			
.402			-.5908					
.503								-.2141
.550								
.565								
.600		.0334						
.637								
.650								
.670								
.700								
.725								
.750								
.760								
.775								
.798								
.808								
.824								
.839								
.850								
.857								
.862								
.865								
.873								
.900								
.905								
.919								
.950								
.953								
.955								
.965								
1.000								

-.5040

DATE 10 FEB 76

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C ORB LEFT WING BOT

(XEBL75) ( 05 AUG 75 )

## REFERENCE DATA

SREF = 2630.0000 SQ.FT. XMRP = 1076.6800 IN. XO  
 LREF = 474.8000 IN. YMRP = .0000 IN. YO  
 BRG = 935.0690 IN. ZMRP = 375.0000 IN. ZO  
 SCALE = .0300

## PARAMETRIC DATA

RUDDER = -5.000 SPOBRK = 55.000  
 BOFLAP = 16.300 L-ELVN = -10.000  
 R-ELVN = -10.000 MACH = .600

ALPHA ( 1 ) = -3.999 BETA ( 1 ) = -7.854 MACH = .59648 Q = 594.32 P = 2386.4 RN/L = 4.8576

## SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

## X/CW

.010	-.3199	-.7333	-1.2334	-2.0858	-1.7158	-1.5850	-1.4329
.020	.0000	-.6299	-1.2701	-1.8555	-1.5702	-1.3217	-1.2995
.040		-.5549	-1.0781				
.050	-.2639			-1.0337	-1.2478	-1.2098	-1.1457
.059							-1.1344
.060							
.081							
.086							
.094	-.2441	-.3782					
.150							
.157							
.163							
.177							
.229	-.2005						
.245							
.250							
.274							
.345							
.370							
.400							
.402							
.503							
.550							
.565							
.600							
.637							
.650							
.670							
.700							
.725							
.750							
.775							
.798							
.808							
.834							
.839							
.850							

DATE 10 FEB 76

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 2951

(XEBL75)

AMES 11-073(0A148) -14CA/B/C ORB LEFT WING BOT

ALPHA ( 1 ) = -3.999 BETA ( 1 ) = -7.854

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.857  
.862  
.865  
.879  
.900  
.905  
.919  
.950  
.953  
.955  
.965  
1.000

-.5370

-.3267

-.3334

-.2814

-.2286

-.1963

-.1437

-.1300

-.0812

-.0993

-.1059

-.3042

-.2510

-.3868

-.1482

-.0812

-.0993

-.1059

-.3042

-.2510

-.3868

-.1482

-.0812

-.0993

-.1059

-.3042

-.2510

-.3868

-.1482

-.0812

-.0993

-.1059

-.3042

-.2510

-.3868

-.1482

-.0812

-.0993

-.1059

-.3042

-.2510

-.3868

-.1482

-.0812

-.0993

-.1059

-.3042

-.2510

-.3868

-.1482

-.0812

ALPHA ( 1 ) = -3.939 BETA ( 2 ) = -3.848 MACH = .59648 Q = .594.32 P = 2386.4 RN/L = 4.8576

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.810  
.820  
.840  
.850  
.860  
.880  
.890  
.900  
.910  
.920  
.930  
.940  
.950  
.960  
.970  
.980  
.990  
1.000

-.2042

-.4764

-.4101

-.3907

-.1801

-.069

-.081

-.085

-.094

-.150

-.157

-.163

-.177

-.229

-.246

-.250

-.274

-.345

-.330

-.400

-.402

-.503

-.550

-.565

-.600

-.9031

-2.1648

-1.9714

-1.6464

-1.4753

-1.9662

-1.7996

-1.3514

-1.3427

-.9883

-.9330

-1.1559

-1.1840

-1.1445

-.9416

-.7074

-.5791

-.2620

-.3133

-.3581

-.2976

-.3371

-.3935

-.4604

-.4853

-.2680

-.3040

-.3799

-.2332

-.3351

-.3402

-.2009

-.4827

-.5071

-.5525

-.3783



ALPHA ( 1 ) =	-3.938	BETA ( 3 ) =	.187
---------------	--------	--------------	------

AMES 11-073(OA148) -140A/B/C ORB LEFT WING BOT

(XE8L75)

SECTION (1) LEFT WING BOT SURF

DEPENDENT VARIABLE CP

2Y/8W	.2990	.3640	.4270	.5340	.6730	.780C	.8870	.9720
-------	-------	-------	-------	-------	-------	-------	-------	-------

**MD/X**

[illegible]



DATE 10 FEB 76 TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

ALPHA ( 1 ) = -3.926 BETA ( 4 ) = 4.266 MACH = .59648 Q = 594.32 P = 2386.4 RV/L = 4.8976  
(XEBL75)

SECTION ( 1 ) LEFT WING BOT SURF	DEPENDENT VARIABLE CP	ORB LEFT WING BOT
2Y/BW	.2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720	
X CM		
.010	-.0505	-.4183
.020	-.0730	-.4727
.040	-.0905	-.4701
.050	-.0845	-.7134
.069		-.8154
.080		-.9487
.081		-1.0744
.085		-.5543
.094	-.0737	-.3901
.150		
.157		
.163	-.1444	
.177		
.229	-.0525	-.2925
.246	-.2474	
.253		
.274		-.2809
.345		-.3378
.393		-.3692
.400		-.3752
.402		
.503	-.2071	-.2425
.550		-.2678
.565		-.3128
.600		-.4910
.637		
.650		-.2819
.670		-.3134
.690		-.4203
.700		
.715		-.4173
.740		
.770		-.4529
.790		-.6779
.838		-.6320
.844		
.839		-.3553
.850		-.4843
.857		-.5478
.852		
.865		-.4082
.879		-.7392
.900		
.905		-.4656
.919		-.4050
		-.3777
		-.3749
		-.6850
		-.2562
		-.3157
		-.2782

DATE 10 FEB 76

TABULATED PRESSURE DATA - OA148 ( AMES 11-073-1 )

PAGE 2955

(XEBL75)

AMES 11-073(OA148) -140A/B/C ORB LEFT WING BOT

ALPHA ( 1 ) = -3.926 BETA ( 4 ) = 4.266

SECTION : 11 LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/8W .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.950 -.3388 -.2490 -.1673

.953

-.2196

.955

-.1931

.965

-.2882

1.003

-.1298

-.1160

-.1373

ALPHA ( 1 ) = -3.941 BETA ( 5 ) = 8.332 MACH = .59648 Q

RN/L = 4.8576

= 2386.4

P

T 594.32

Q

SECTION : 11 LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/8W .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.010

-.1762

-1.1950

-1.4479

-1.9917

-1.9169

-.2373

-.9485

-1.1060

-1.3013

-1.7209

.020

-.0322

-.0050

-.0370

-.3029

-.5547

-.6879

-.8153

-.8824

-.5114

.050

-.0343

-.069

-.080

-.081

-.086

-.094

-.150

-.157

-.163

.177

-.0755

-.2425

-.0283

-.1889

-.274

-.345

-.390

-.400

-.402

.503

-.1890

-.2275

-.2418

-.2825

-.2689

-.2955

-.3322

-.3361

-.3329

.505

-.2229

-.2689

-.2955

-.3322

-.3361

-.3329

-.3863

-.3938

-.3944

.600

-.2488

-.3149

-.3696

-.4090

-.4422

-.4825

-.5114

-.5407

-.5697

.637

-.2847

-.3149

-.3696

-.4090

-.4422

-.4825

-.5114

-.5407

-.5697

.670

-.2425

-.3149

-.3696

-.4090

-.4422

-.4825

-.5114

-.5407

-.5697

.700

-.2425

-.3149

-.3696

-.4090

-.4422

-.4825

-.5114

-.5407

-.5697

.750

-.2425

-.3149

-.3696

-.4090

-.4422

-.4825

-.5114

-.5407

-.5697

.760

-.2425

-.3149

-.3696

-.4090

-.4422

-.4825

-.5114

-.5407

-.5697



DATE 10 FEB 76

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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(XEBL75)

AMES 11-073(0A148) -148A/B/C ORB LEFT WING BOT

ALPHA ( 2 ) = .043 BETA ( 1 ) = -7.890

SECTION ( 1 ) LEFT WING BOT SURF

DEPENDENT VARIABLE CP

2Y/1W .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.400							
.402							
.503							
.550							
.565							
.600							
.637							
.650							
.670							
.700							
.725							
.750							
.760							
.775							
.799							
.808							
.834							
.839							
.850							
.857							
.862							
.855							
.879							
.900							
.905							
.919							
.950							
.953							
.955							
.965							
1.000							

ALPHA ( 2 ) = .091 BETA ( 2 ) = -3.863 MACH = .59624 Q = 593.85 P = 2386.3 RN/L = 4.8579

SECTION ( 1 ) LEFT WING BOT SURF

DEPENDENT VARIABLE CP

2Y/1W .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.010							
.025							
.050							
.070							
.080							
.090							
.100							
.110							
.120							
.130							
.140							
.150							
.160							
.170							
.180							
.190							
.200							
.210							
.220							
.230							
.240							
.250							
.260							
.270							
.280							
.290							
.300							
.310							
.320							
.330							
.340							
.350							
.360							
.370							
.380							
.390							
.400							
.410							
.420							
.430							
.440							
.450							
.460							
.470							
.480							
.490							
.500							
.510							
.520							
.530							
.540							
.550							
.560							
.570							
.580							
.590							
.600							
.610							
.620							
.630							
.640							
.650							
.660							
.670							
.680							
.690							
.700							
.710							
.720							
.730							
.740							
.750							
.760							
.770							
.780							
.790							
.800							
.810							
.820							
.830							
.840							
.850							
.860							
.870							
.880							
.890							
.900							
.910							
.920							
.930							
.940							
.950							
.960							
.970							
.980							
.990							
1.000							

DATE 10 FEB 76 TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

(XEBL75)

AMES 11-073(0A148) -140A/B/C ORB LEFT WING BOT

ALPHA ( 2 ) = .091 BETA ( 2 ) = -3.863

SECTION ( 1 ) LEFT WING BOT SURF	DEPENDENT VARIABLE CP			
2Y/BW	.2930	.3640	.4270	.5340 .6730 .7800 .8870 .9720
X/CW				
.081				
.086				
.094				
.150				
.157				
.153				
.177				
.229				
.246				
.250				
.274				
.345				
.370				
.400				
.402				
.503				
.550				
.565				
.600				
.637				
.650				
.670				
.700				
.725				
.750				
.760				
.775				
.798				
.808				
.834				
.839				
.850				
.857				
.862				
.865				
.873				
.900				
.905				
.910				
.950				
.953				
.955				
.955				
1.000				

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TABULATED PRESSURE DATA - 0A148 (AMES 11-073-1)

PAGE 2959

ALPHA (2) = .032 BETA (3) = .181 MACH = .59624 Q = 593.85 P = 2386.3 RN/L = 4.8679  
(XEBL75)

SECTION (1) LEFT WING BOT SURF

DEPENDENT VARIABLE CP

2Y/BW .2990 .3642 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.010	.0054	.0543	.0391	-.6313	-.7964	-.8872	-.8356
.020	.0000	.0395	-.0488	-.6190	-.6355	-.7189	-.8517
.040		.0507	-.1857				
.050	-.0145			-.3925	-.4470	-.5128	-.5457
.060				-.3242			-.2738
.081		-.0219					
.086		.0464					
.094	-.0240			-.2211	-.2444	-.2666	-.2968
.100							-.2197
.163		-.0325					
.177			-.1673				
.229	-.0169						
.246		.1483		-.1703	-.2115	-.2374	-.2528
.250							
.274							
.345							
.353		-.1294					-.2412
.400				-.1665	-.1911		-.2336
.402			-.1322				
.503				-.2400	-.2641		-.3280
.550			-.2237				
.555							
.600							
.637		-.2247					-.3637
.640						-.3680	
.670							-.4032
.700							
.725				-.3277	-.4276		
.750						-.6086	-.6109
.760							
.775				-.5914	-.5572		
.794		-.3936					
.808			-.7683				
.934							
.939	-.3366						
.950		-.5466		-.5008	-.4274	-.4074	
.957			-.3924				
.962							-.2668
.965	-.5962						
.979		-.3666					
.980	-.4003		-.4055				-.2301
.985							
.986		-.3059					
.989							
.919		-.2617					

DATE 10 FEB 76

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 2960

AMES 11-073(0A148) -140A/B/C ORB LEFT WING BOT.

(XEBL75)

ALPHA ( 2 ) = .092 BETA ( 3 ) = .181

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BA .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.950

.953

.955

1.000

ALPHA ( 2 ) = .077 BETA ( 4 ) = .4247 MACH = .59624 Q = 593.85 P = 2386.3 RN/L = 4.8579

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BA .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.010

.020

.030

.040

.050

.069

.090

.081

.086

.094

.153

.157

.163

.177

.229

.246

.250

.274

.345

.392

.400

.402

.503

.550

.555

.600

.637

.650

.670

.700

.725

.757

.760

REPRODUCIBILITY OF THE  
ORIGINAL PAGE IS POOR

DATE 10 FEB 76

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 2961

(XEBL 75)

AMES 11-073(0A148) -140A/B/C ORB LEFT WING BOT

ALPHA ( 2 ) = .077 BETA ( 4 ) = 4.247

SECTION: ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/B4 .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.775 -.3991 -.5191 -.5371

.798

.808 -.7438

.834 -.3368

.839 -.5268

.850

.857 -.3826

.862

.865 -.5989

.879 -.3769

.900 -.4102

.905 -.3224

.919

.950 -.2795

.953 -.2105

.955 -.1833

1.000 -.2825

.1093

.0929

.0574

.0574

.0574

.0574

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.0574

.0574

.0574

.0574

.0574

.0574

.0574

ALPHA ( 2 ) = .073 BETA ( 5 ) = 8.305 MACH = .59624 Q = 593.85 P = 2386.3 RN/L = 4.8579

SECTION: ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/B4 .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.010

.020

.040

.070

.080

.080

.080

.080

.080

.080

.080

.080

.080

.080

.080

.080

.080

.080

.080

.080

.080

.080

.080

.080

.080





(XEBL75)

ORB LEFT WING BOT

11-073-1

TABULATED PRESSURE DATA - (

AMES 11-07310A14

ALPHA ( 3 ) = 4.023 BETA ( 1 ) = -7.904

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .730 .7800 .8870 .9720

X/CM							
.081	-.0606						
.096	.1399						
.094	.0351	-.0793	-.0800	-.0795	-.0986		-.1487
.150							
.157	.0574						
.163							
.177	-.0585						
.0382							
.229	-.0562						
.246		-.0585	-.0861	-.1026	-.1100		
.250							
.274	-.0538						
.345							-.1479
.390	-.0472						
.400		-.0884	-.1016		-.1499		
.402	-.0542						-.2703
.503		-.1814	-.2078				
.550							
.565	-.2814				-.3353		
.600							
.637	-.1759			-.3402			-.3791
.652							
.670			-.4061				
.700		-.3145					
.725				-.7265	-.6708		
.750	-.3093						
.760		-.7173	-.5639				
.775							
.799	-.3746						
.808							
.834	-.3003						
.839		-.5054					
.850							
.857							
.862	-.3915			-.4926	-.4343	-.3430	
.855							-.2000
.873	-.5318						
.900		-.3155					
.905	-.3257						
.919		-.2383					-.1984
.930		-.1919					
.950			-.1693	-.3409	-.0920		
.953		-.1284					
.955	-.1066						
.965	-.0972						
1.000		-.0339	-.0483				.0001

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TABULATED PRESSURE DATA - OA148 ( AMES 11-073-1 )

PAGE 2984

AMES 11-073(OA148) -140A/B/C ORB LEFT WING BOT (XEBL75)

ALPHA ( 3 ) = 4.026 BETA ( 2 ) = -3.864 MACH = .5940 Q = 594.21 P = 2386.5 RN/L = 4.8659

SECTION ( 1 ) LEFT WING BOT SURF

DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.010 .0183 .0776 .3090 .0233 -.0286 .0711 .0934  
 .020 .0000 .1099 .2403 -.0905 -.0491 -.0639 -.0486  
 .040 .1335 .0714  
 .050 .0414  
 .069 .069  
 .080 .080  
 .081 .081  
 .086 .086  
 .094 .0342  
 .150 .150  
 .157 .157  
 .163 .163  
 .177 .177  
 .229 .229  
 .246 .246  
 .250 .250  
 .274 .274  
 .345 .345  
 .370 .370  
 .400 .400  
 .402 .402  
 .503 .503  
 .550 .550  
 .565 .565  
 .600 .600  
 .637 .637  
 .650 .650  
 .670 .670  
 .700 .700  
 .725 .725  
 .750 .750  
 .760 .760  
 .775 .775  
 .798 .798  
 .808 .808  
 .834 .834  
 .839 .839  
 .850 .850  
 .857 .857  
 .862 .862  
 .865 .865  
 .879 .879  
 .900 .900  
 .905 .905  
 .919 .919

-.0770

-.0187

.1581

.0342

.1007

.0337

.0377

.0472

.0318

.0337

.0384

.0512

.0578

.1701

.0318

.0512

.0578

.1701

.0318

.0512

.0578

.1701

.0318

.0512

.0578

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.0512

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.1701

.0318

.0512

.0578

.1701

.0318

.0512

.0578

.1701

.0318

.0512

.0578

.1701

.0318

.0512

.0578

.1701

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ALPHA ( 3 ) =	4.026	BETA ( 2 ) =	-3.864
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SECTION ( )	LEFT WING BOT SURF	DEPENDENT VARIABLE CP
2Y/BW	.2990	.5340
	.4270	.6730
	.7800	.9870
		.9720

X/CW					
.950					
.953					
.955		- .1339	- .1578	- .2271	- .2875
.965					
1.000	- .1413		- .0606		- .0332
					- .1056

ALPHA ( 3 ) =	4.153	BETA ( 3 ) *	.177	MACH =	.59540	Q
SECTION ( 1 ) LEFT WING BOT SURF				DEPENDENT VARIABLE CP		
2000	3640	4.270	.5340	.6730	.7800	.9870
2000						.9720

X/CM							
0.10	-.0827	-.0441	.2924	.0356	.1268	.1096	
0.20	.0000	.0425	.2654	.0055	.0015	-.0196	
0.40		.0834	.1310				-.1201
0.50	-.0004						
0.69				-.0297	-.0376	-.0584	-.0800
0.80							
				-.0479			-.1357

[illegible]

-.0107	-.0419	-.0720	-.0913	-.1190	-.1868
		7.0316			

- .0269	- .0838	- .1025	- .1556
	- .0531		
	- .2567	- .2045	- .3318
- .1654		- .3425	
	- .3139	- .4032	- .7175
			- .6202
			- .3145

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 2966

(XEBL75)

AMES 11-073(0A148) -140A/B/C 078 LEFT WING BOT

ALPHA ( 3 ) = 4.153 BETA ( 3 ) = .177

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.775 .798 .808 .834 .839 .850 .857 .862 .865 .879 .900 .905 .919 .950 .953 .955 .965 1.000

.3763 .7746 .5389 .3807 .5013 .4264 .3778 .1562

.3182 .5826 .3617 .3925 .2612 .1756 .1584 .2196 .0738 .0427 .0168

.2090 .2787 .2457 .2338 .1133 .3755 .2090

.2090 .2787 .2457 .2338 .1133 .3755 .2090

.2090 .2787 .2457 .2338 .1133 .3755 .2090

.2090 .2787 .2457 .2338 .1133 .3755 .2090

.2090 .2787 .2457 .2338 .1133 .3755 .2090

.2090 .2787 .2457 .2338 .1133 .3755 .2090

.2090 .2787 .2457 .2338 .1133 .3755 .2090

.2090 .2787 .2457 .2338 .1133 .3755 .2090

.2090 .2787 .2457 .2338 .1133 .3755 .2090

.2090 .2787 .2457 .2338 .1133 .3755 .2090

.2090 .2787 .2457 .2338 .1133 .3755 .2090

.2090 .2787 .2457 .2338 .1133 .3755 .2090

.2090 .2787 .2457 .2338 .1133 .3755 .2090

.2090 .2787 .2457 .2338 .1133 .3755 .2090

.2090 .2787 .2457 .2338 .1133 .3755 .2090

.2090 .2787 .2457 .2338 .1133 .3755 .2090

.2090 .2787 .2457 .2338 .1133 .3755 .2090

.2090 .2787 .2457 .2338 .1133 .3755 .2090

.2090 .2787 .2457 .2338 .1133 .3755 .2090

.2090 .2787 .2457 .2338 .1133 .3755 .2090

.2090 .2787 .2457 .2338 .1133 .3755 .2090

.2090 .2787 .2457 .2338 .1133 .3755 .2090

.2090 .2787 .2457 .2338 .1133 .3755 .2090

.2090 .2787 .2457 .2338 .1133 .3755 .2090

.2090 .2787 .2457 .2338 .1133 .3755 .2090

.2090 .2787 .2457 .2338 .1133 .3755 .2090

.2090 .2787 .2457 .2338 .1133 .3755 .2090

.2090 .2787 .2457 .2338 .1133 .3755 .2090

.2090 .2787 .2457 .2338 .1133 .3755 .2090

.2090 .2787 .2457 .2338 .1133 .3755 .2090

.2090 .2787 .2457 .2338 .1133 .3755 .2090

.2090 .2787 .2457 .2338 .1133 .3755 .2090

.2090 .2787 .2457 .2338 .1133 .3755 .2090

.2090 .2787 .2457 .2338 .1133 .3755 .2090

.2090 .2787 .2457 .2338 .1133 .3755 .2090

.2090 .2787 .2457 .2338 .1133 .3755 .2090

.2090 .2787 .2457 .2338 .1133 .3755 .2090

.2090 .2787 .2457 .2338 .1133 .3755 .2090

.2090 .2787 .2457 .2338 .1133 .3755 .2090

.2090 .2787 .2457 .2338 .1133 .3755 .2090

.2090 .2787 .2457 .2338 .1133 .3755 .2090

.2090 .2787 .2457 .2338 .1133 .3755 .2090

.2090 .2787 .2457 .2338 .1133 .3755 .2090

.2090 .2787 .2457 .2338 .1133 .3755 .2090

.2090 .2787 .2457 .2338 .1133 .3755 .2090

.2090 .2787 .2457 .2338 .1133 .3755 .2090

.2090 .2787 .2457 .2338 .1133 .3755 .2090

.2090 .2787 .2457 .2338 .1133 .3755 .2090

.2090 .2787 .2457 .2338 .1133 .3755 .2090

.2090 .2787 .2457 .2338 .1133 .3755 .2090

.2090 .2787 .2457 .2338 .1133 .3755 .2090

.2090 .2787 .2457 .2338 .1133 .3755 .2090

.2090 .2787 .2457 .2338 .1133 .3755 .2090



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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

(XEBL 75)

AMES 11-073(0A148) -140A/B/C ORB LEFT WING BOT

ALPHA ( 3 ) = 4.017 BETA ( 5 ) = 8.288

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

27/84 .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CM

.081	.0735						
.085	.0592						
.094	-.0719		-.0115	-.0179	-.0294	-.0971	-.2222
.150							
.157	.1226						
.163							
.177	.0181						
.229	-.0033						
.246	.0020		-.0366	-.0580	-.0840	-.1259	
.250							
.274			-.0155				-.2295
.345							
.390	-.0185		-.0839	-.0981		-.1627	
.400			-.0524				-.2970
.402							
.503			-.1739	-.2012			
.550							
.565							
.600							
.637							
.650							
.670							
.700							
.725							
.750							
.760							
.775							
.798							
.808							
.834							
.839							
.850							
.857							
.852							
.865							
.879							
.900							
.905							
.919							
.950							
.953							
.955							
.955							
1.000							

DATE 10 FEB 76

TABULATED PRESSURE DATA - QAI48 ( AMES 11-073-1 )

(XEBL75)  
RN/L = 4.8657

2386.7

P

ORR LEFT WING BOT

AMES 11-073(QAI48) -140A/B/C Q = 593.97

ALPHA ( 4 ) = 7.959 BETA ( 1 ) = -7.893 MACH = .59636

SECTION ( 1 ) LEFT WING BOT SURF

DEPENDENT VARIABLE CP

2Y/BA .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CM

.010	-.0157	-.0471	.4049	.4303	.4404	.5225	.5084
.020	.0000	.1088	.4195	.2946	.3580	.3796	.3667
.040	.0913	.1630	.2899	.1860	.2223	.2274	.2422
.050				.1388			-.0740
.069				.1723			
.081		.2504					
.085	.1019			.1019	.1236	.1365	.0385
.094		.2238					-.1393
.150							
.157				.1065			
.163	.1255	.0963		.0736	.0632	.0508	.0256
.177							-.1145
.229							
.245							
.250							
.274							
.345							
.390							
.400							
.402							
.503							
.550							
.565							
.600							
.637							
.650							
.670							
.700							
.725							
.750							
.760							
.775							
.798							
.808							
.834							
.839							
.850							
.857							
.862							
.865							
.879							
.900							
.905							
.919							

-.1978

-.1849



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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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(XEBL75)

ALPHA ( 4 ) = 7.959 BETA ( 1 ) = -7.893  
AMES 11-073(0A148) -140A/B/C ORB LEFT WING BOT

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.950

.953

.955

.965

1.000

-1.086 -1.2826 -1.0896

1.0930

-0.0916

-0.0813

-0.0059

.0044

-0.0071

0

ALPHA ( 4 ) = 7.971 BETA ( 2 ) = -3.863 MACH = .59626

DEPENDENT VARIABLE CP

SECTION ( 1 ) LEFT WING BOT SURF

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.810

.070

.040

.050

.063

.080

.091

.086

.094

.150

.157

.163

.177

.229

.245

.250

.274

.345

.390

.407

.402

.503

.550

.565

.600

.637

.650

.570

.700

.745

.750

.760

.4358 .4322 .4842 .4540

.3176 .3525 .3681 .3610

.2114 .2265 .2378 .2338

.1544

.1856

.2064

.2347

.1148 .1210 .1263 .0702

.1145

.0773

.0774 .0618 .0506 .0049

.0691

.0038 -.0058

.0367

-.1126 -.1355

-.2857

-.1682

-.0735

-.2917

-.2988

-.3641

-.2945

-.7154

-.6448

-.3063

-.3483

-.2898

-.1780

-.1900

-.1780

-.1780

-.1780

-.1780

-.1780

-.1780

-.1780

-.1780

-.1780

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-.1780

-.1780

-.1780

-.1780

-.1780

DATE 10 FEB 76

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 2971

(XEBL75)

AMES 11-07310A148) -140A/B/C ORB LEFT WING BOT

ALPHA ( 4 ) = 7.971 BETA ( 2 ) = -3.863

SECTION ( 1 ) LEFT WING BOT SURF	DEPENDENT VARIABLE CP
2Y/BA	.2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720
X/CW	
.775	
.798	
.808	
.834	
.839	
.850	
.857	
.862	
.865	
.879	
.900	
.905	
.919	
.950	
.953	
.955	
.965	
1.000	

ALPHA ( 4 ) = 8.077 BETA ( 3 ) = .178 MACH = .59626 Q = 593.97 P = 2386.7 RN/L = 4.8657

SECTION ( 1 ) LEFT WING BOT SURF	DEPENDENT VARIABLE CP
2Y/BA	.2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720
X/CW	
.010	
.020	
.040	
.050	
.069	
.080	
.081	
.086	
.094	
.150	
.157	
.153	
.177	
.229	
.246	
.250	
.274	
.345	
.390	

DATE 10 FEB 76

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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(XEBL75)

AMES 11-073(0A148) -140A/B/C ORB LEFT WING BOT

ALPHA ( 4 ) = 8.077 BETA ( 3 ) = .178

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/84 .7990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CM

.400	.0012	-.0153	-.0937	
.402	.0339			
.503				
.550	-.1118	.1434		-.3155
.565				
.600	-.2775			
.637				
.650	-.1107			
.670				
.700				
.725				
.750				
.760				
.775				
.798				
.808	-.3591			
.834				
.839				
.850				
.857				
.862				
.865				
.879				
.900				
.905				
.919				
.953				
.973				
.975				
.985				
1.000				

ALPHA ( 4 ) = 8.079 BETA ( 4 ) = .235 MACH = .59626 0 = 593.97 P = 2388.7 RN/L = 4.8657

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/84 .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CM

.010	-.5500	-.6391	-.0255	.3687	.3552	.3453	.2976
.020	.0000	-.3213	.1741	.3082	.3209	.3172	.2776
.040		-.2169	.2430				-.6745
.050	-.1540			.2214	.2377	.2154	.1953
.069							-.4744
.080							



DATE 10 FEB 76

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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ALPHA ( 4 ) = 8.076 BET ( 5 ) = 8.290 MACH = .59626 Q = 593.97 P = 2386.7 RM/L = 4.8657  
 (XEBL75)

SECTION ( 1 ) LEFT WING BOT SURF

DEPENDENT VARIABLE CP

2Y/BL	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CH								
.010	-.7393	-.6160	-.2385	.2918	.2844	.2392	.1975	
.020	.0000	-.4147	.0241	.2747	.2742	.2632	.2205	-.9047
.040		-.3180	.1812	.2041	.2160	.1883	.1554	
.050	-.2662							
.069								
.080				.1528				-.6231
.081			.1640					
.086		-.0113						
.094	-.1480			.0963	.1017	.0968	.0071	-.3508
.150								
.157								
.163		.1543						
.177			.1098					
.229	-.0091							
.246		.0731		.0537	.0324	.0173	-.0565	
.250			.0667					-.3454
.274								
.345		.0557						
.390								
.400			.0208	-.0114	-.0324		-.1310	
.402								-.3944
.503								
.550				-.1272	-.1547			
.565			-.3192				-.3158	
.600								
.637		-.1118						
.650						-.3114		-.3606
.670								
.700				-.3195	-.3567			
.725						-.6702	-.6294	
.750								
.760			-.3284					
.775				-.8386	-.4771			
.798		-.3633						
.808			-.7805					
.834	-.3110							
.839		-.5524						
.850				-.4563	-.3480	-.3696		
.857			-.3989					
.862								-.1757
.865	-.6051							
.879		-.3948						
.900	-.4064							
.905			1.2538				-.1837	
.919		-.2662	-.2678					

DATE 10 FEB 76 TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )  
 AMES 11-073(0A148) -140A/B/C ORB LEFT WING BOT

(XEBL75)

ALPHA ( 4 ) = 8.076 BETA ( 5 ) = 8.290

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BA .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CH

.950 -.1343 -.1744 -.1034

.953 -.1394

.955 -.1839

1.000 -.3424

-.0428 -.0343 -.0265

ALPHA ( 5 ) = 11.984 BETA ( 1 ) = -7.850 MACH = .59636 Q = 594.09 P = 2386.3 RN/L = 4.8671

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BA .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CH

.010

.020

.040

.050

.069

.080

.081

.086

.094

.150

.157

.163

.177

.229

.246

.250

.274

.345

.390

.400

.402

.503

.550

.565

.600

.637

.640

.670

.700

.725

.750

.760

-.3061 -.5960 .1741 .5909 .5944 .5429 .4905

.0000 -.1444 .3925 .5411 .5706 .5678 .5277

-.0240 .4386 .4202 .4527 .4538 .4396

.0556 .3423

.086 .3504

.081 .2635

.1179 .2642 .2946 .2950 .2367

.157 .3485

.163 .2538

.177 .1940

.229 .2256

.246 .2048 .1986 .1899 .1329

.250 .1940

-.1279

.274 .1712

.345 .1089 .0996 .0305

.390 .1370

.400 .1370

.402 .1370

.503 .1370

.550 .1370

.565 .1370

.600 .1370

.637 .1370

.640 .1370

.670 .1370

.700 .1370

.725 .1370

.750 .1370

.760 .1370

-.0306

-.0229

-.0485

-.2308

-.2313

-.2717

-.2421

-.6749

-.6103

-.2674

-.2328

1.3497

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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(XEBL75)

AMES 11-073(0A148) -140A/B/C ORB LEFT WING BOT

ALPHA ( 5 ) = 11.984 BETA ( 1 ) = -7.850

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW .2900 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CM

.775							
.798							
.808							
.834							
.839							
.850							
.857							
.862							
.865							
.879							
.900							
.905							
.919							
.920							
.953							
.955							
.965							
1.000							

ALPHA ( 5 ) = 12.003 BETA ( 2 ) = -3.840 MACH = .59636 Q = 594.09 P = 2386.3 RN/L = 4.8371

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CM

.010							
.020							
.040							
.050							
.069							
.080							
.081							
.086							
.094							
.150							
.157							
.163							
.177							
.229							
.246							
.250							
.274							
.345							
.390							

REPRODUCIBILITY OF THE  
ORIGINAL PAGE IS POOR

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 2977

(XEBL75)

AMES 11-073(0A148) -140A/B/C ORB LEFT WING BOT

ALPHA ( 5 ) = 12.003 BETA ( 2 ) = -3.840

SECTION ( 1 ) LEFT WING BOT SURF

DEPENDENT VARIABLE CP

2Y/BA .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CM

.400	.1057	.0925	-.0002	
.402	.1278			
.503				
.550				
.565	-.0327	-.0632		-.3084
.600	-.2941			
.637			-.2536	
.650	-.0318		-.2455	
.670				-.3840
.700		-.3001		
.725		-.2558		
.750		-.6878	-.6346	
.760	-.2742			
.775	-.8728	-.4392		
.798	-.3127			
.808	-.8001			
.834				
.839	-.4970			
.850		-.4348	-.3987	-.3609
.857	-.3542			
.862				
.865				
.879				
.900	-.3203			
.905		-.2268		-.2292
.919	-.2289			
.950		-.0983	-.2358	-.0985
.953	-.1048			
.955	-.1304			
.965				
1.000	-.0189	-.0288	-.0396	

-2717

ALPHA ( 5 ) = 12.008 BETA ( 3 ) = .180 MACH = .59636 Q = 594.09 P = 2386.3 RMA/L = 4.8671

SECTION ( 1 ) LEFT WING BOT SURF

DEPENDENT VARIABLE CP

2Y/BA .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CM

.010	-.7679	-1.0557	-.2843	.4050	.4039	.2867	.2315
.020	.0000	-.5034	.0903	.4379	.4474	.4258	.3549
.040		-.3539	.3188				-1.0686
.050	-.1625			.3764	.3991	.3809	.3345
.069							
.080			.3120				-.6536



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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/E/C ORB LEFT WING BOT

(XEBL79)

ALPHA ( 5 ) = 12.008 BETA ( 3 ) = .180

SECTION ( 1 ) LEFT WING BOT SURF	DEPENDENT VARIABLE CP			
2Y/BW	.2990	.3640	.4270	.5340 .6730 .7800 .8870 .9720
X/CH	.081	.086	.094	.150
	.0847	.2998	.2318	.2579 .2492 .1629
	-.0398	.2847	.1778	.1684 .1481 .0740
	.163	.177	.1769	.0853 .0704
	.0966	.1938	.1155	-.0417 -.0785
	.246	.229	.1572	-.2698
	.250	.274	.1155	-.0393
	.345	.390	.1572	-.2713
	.400	.402	.1155	-.2942
	.503	.550	.0853	-.8145
	.565	.600	-.0417	-.5266
	.637	.650	-.0417	-.3818
	.670	.700	-.0393	-.5407
	.725	.750	-.2713	-.3618
	.760	.775	-.2942	-.2530
	.798	.808	-.8145	-.2599
	.834	.839	-.5266	-.1315
	.850	.857	-.3818	-.2579
	.862	.865	-.5407	-.0174
	.879	.900	-.3618	-.0347
	.905	.919	-.2530	-.0295
	.950	.953	-.2599	
	.955	.965	-.1315	
	.965	1.000	-.2579	

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TABULATED PRESSURE DATA - 0A14B ( AMES 11-073-1 )

**PAGE 2879**

ALPHA ( 5 ) = 12.057 BETA ( 4 ) = 4.244 MACH = .59636 Q = 594.09 P = 2386.3 RN/L = 4.8671  
AMES 11-073(OA148) -140A/B/C ORB LEFT WING BOT (XEBL75)

SECTION (1) LEFT WING BOT SURF

DEPENDENT VARIABLE CP

2Y/4Y	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CM								
.010	-.9553	-.9609	-.4904	.2755	.2801	.1106	.0644	
.020	.0000	-.5904	-.0788	.3591	.3585	.3246	.2469	-1.2561
.040		-.4538	.2285					
.050	-.2884			.3343	.3478	.3281	.2749	
.069								-.8045
.080				.2778				
.081			.2538					
.086		-.0087						
.094	-.1333							
.150				.2087	.2277	.2243	.1265	-.3558
.157		.2291						
.163			.2067					
.177								
.229	.0405							
.246		.1636						
.250			.1579	.1509	.1490	.1215	.0513	-.3083
.274								
.345		.1416						
.390			.1000	.0716	.0559		-.0511	-.3685
.400								
.402				-.0561	-.0966			
.503			-.2922				-.2872	
.550						-.2807		-.3656
.565								
.600		-.0485			-.3315			
.637				-.2807				
.650								
.670								
.700								
.725								
.750			-.3090	.6958		-.6765	-.6340	
.760								
.775								
.798		-.3377						
.809			-.7939					
.834	-.2798							
.839		-.5387						
.850								
.857			-.3906	-.4470	-.3607	-.3913		-.2446
.852								
.845	-.5766							
.879		-.3727						
.903	-.3898			-.2556			-.2385	
.905			-.2621					
.919		-.2783						

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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(XEBL75)

AMES 11-073(0A148) -140A/B/C ORB LEFT WING BOT

ALPHA ( 5 ) = 12.057 BETA ( 4 ) = 4.244

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CM

.950 -.1370 -.2025 -.1358

.953 -.1321

.955 -.1726

.965 -.3291

1.000

- .0062 - .0371 - .0684

ALPHA ( 5 ) = 12.114 BETA ( 5 ) = 8.307 MACH = .59636 Q = 594.09 P = 2386.3 RN/L = 4.8571

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CM

.010 -1.2324 -.7357 -.7272 .1057 .1276 -.0940 -.1251

.020 .0000 -.6344 -.2829 .2542 .2495 .2062 .1193 -1.3828

.040 .0000 -.5252 .1220 .2786 .2958 .2590 .1999

.050 -.4289

.069 .080

.081 .086

.094 -.0942

.150 .157

.163 .1687

.177 .1894

.229 -.0175

.246 .1245

.250 .1417

.274 .1222

.345 .1222

.390 .0784

.400 .0540 .0402

.402 .0784

.503 .0540

.550 -.0641 -.1000

.600 -.3277

.637 -.0544

.650 -.2809

.670 -.3260

.700 -.2822

.725 -.6522

.750 -.3168

.760 -.6208

-1.3379

-1.3788

-1.3788

-1.3526

-1.3526

-1.3526

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

**PAGE 2881**

(XEBL 75)

$$\text{ALPHA} (5) = 12.114 \quad \text{BETA} (5) = 8.307$$

AMES 11-073(QA148) -140A/B/C ORB LEFT WING BOT

SECTION ( ) LEFT WING BOT SURF	DEPENDENT VARIABLE CP
1	0.0000
2	0.0000
3	0.0000
4	0.0000
5	0.0000
6	0.0000
7	0.0000
8	0.0000
9	0.0000
10	0.0000
11	0.0000
12	0.0000
13	0.0000
14	0.0000
15	0.0000
16	0.0000
17	0.0000
18	0.0000
19	0.0000
20	0.0000
21	0.0000
22	0.0000
23	0.0000
24	0.0000
25	0.0000
26	0.0000
27	0.0000
28	0.0000
29	0.0000
30	0.0000
31	0.0000
32	0.0000
33	0.0000
34	0.0000
35	0.0000
36	0.0000
37	0.0000
38	0.0000
39	0.0000
40	0.0000
41	0.0000
42	0.0000
43	0.0000
44	0.0000
45	0.0000
46	0.0000
47	0.0000
48	0.0000
49	0.0000
50	0.0000
51	0.0000
52	0.0000
53	0.0000
54	0.0000
55	0.0000
56	0.0000
57	0.0000
58	0.0000
59	0.0000
60	0.0000
61	0.0000
62	0.0000
63	0.0000
64	0.0000
65	0.0000
66	0.0000
67	0.0000
68	0.0000
69	0.0000
70	0.0000
71	0.0000
72	0.0000
73	0.0000
74	0.0000
75	0.0000
76	0.0000
77	0.0000
78	0.0000
79	0.0000
80	0.0000
81	0.0000
82	0.0000
83	0.0000
84	0.0000
85	0.0000
86	0.0000
87	0.0000
88	0.0000
89	0.0000
90	0.0000
91	0.0000
92	0.0000
93	0.0000
94	0.0000
95	0.0000
96	0.0000
97	0.0000
98	0.0000
99	0.0000
100	0.0000

2Y/8W	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
-------	-------	-------	-------	-------	-------	-------	-------	-------

**X/CW**

**-9145 -4578**

864

- 3346

808.

-7740

45B.

833

**- .5338**

.858

**- .4316   - .3502   - .3884**

757

-4010

298

- 5868

628

**- .3770**

006.

1952

**.905**

11

615.

050

**.953**

955

595

**.000**

**-0245**

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C QRB LEFT WING BOT

(XEBL76) ( 05 AUG 75 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO  
 LREF = 474.8000 IN. YMRP = .0000 IN. YO  
 BREF = 936.0690 IN. ZMRP = 375.0000 IN. ZO  
 SCALE = .0300

## PARAMETRIC DATA

RUDDER = -10.000 SPOBRK = .000  
 BDFLAP = -11.700 L-ELVN = 10.000  
 R-ELVN = -10.000 MACH = 1.400

ALPHA ( 1 ) = -4.004 BETA ( 1 ) = -3.853 MACH = 1.3930 Q = 588.57 P = 440.65 RN/L = 2.9057

## SECTION ( 1 ) LEFT WING BOT SURF

## DEPENDENT VARIABLE CP

27/84 .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

## X/CW

.010	-.1834	-.2388	-.1361	-.2782	-.3598	-.2211	-.1927	
.020	.0000	-.2268	-.2434	-.4171	-.4003	-.4153	-.4091	-.4599
.040	-.2299	-.3041						
.050	-.1521			-.4492	-.4328	-.4471	-.4397	-.4963
.069								
.080			-.4441					
.081			-.1899					
.086		-.1239						
.094	-.1402			-.4014	-.3940	-.3985	-.4019	-.3077
.150								
.157								
.163		-.0356						
.177		-.1782						
.229	-.1014							
.246		-.1157						
.250				-.2168	-.3636	-.3606	-.3724	
.274		-.1651						-.4397
.345								
.390		-.1428						
.400				-.1771	-.3119		-.3348	
.402		-.1565						-.4198
.503				-.1431	-.1598			
.550		-.2953						
.565								
.600								
.637	-.1011						-.3233	
.650								
.670								
.700								
.725				-.1814				
.750								
.760		-.1890					-.0001	-.0905
.775				.0309	-.0014			
.798		-.1701						
.808								
.834		.0634						
.839	-.1903							
.850		.0381						
				-.0309	-.0599	-.0406		

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 AMES 11-073(0A148) -140A/B/C ORB LEFT WING BOT

(XEBL 76)

ALPHA ( 1 ) = -4.00% BETA ( 1 ) = -3.853  
 SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP  
 2Y/BN .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720  
 X/CM  
 .857  
 .862  
 .865  
 .879  
 .903  
 .905  
 .919  
 .950  
 .953  
 .955  
 .965  
 1.000  
 -.0033  
 -.0288  
 -.0701  
 -.1075  
 -.1490  
 -.1526  
 -.2148  
 -.3442  
 -.3463  
 -.1137  
 -.0872  
 -.1592  
 -.1246  
 -.1347  
 -.2312

ALPHA ( 1 ) = -4.001 BETA ( 2 ) = .191 MACH = 1.3930 Q = 598.57 P = 440.65 RN/L = 2.9057

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP  
 2Y/BN .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720  
 X/CM  
 .010  
 .020  
 .040  
 .050  
 .069  
 .080  
 .081  
 .086  
 .094  
 .150  
 .157  
 .163  
 .177  
 .229  
 .245  
 .270  
 .274  
 .345  
 .330  
 .433  
 .402  
 .503  
 .550  
 .565  
 .600  
 -.0963  
 .0000  
 -.0956  
 -.1008  
 -.0754  
 -.0115  
 -.1327  
 -.0770  
 -.1224  
 -.1186  
 -.3179  
 -.2789  
 -.4145  
 -.4326  
 -.4474  
 -.3904  
 -.3097  
 -.1652  
 -.1470  
 -.1092  
 -.3196  
 -.2649  
 -.4412  
 -.4709  
 -.4728  
 -.5055  
 -.5218  
 -.4269  
 -.3967  
 -.3493  
 -.4546  
 -.3249

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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(XEBL76)

AMES 11-073(0A148) -140A/B/C ORB LEFT WING BOT

ALPHA ( 1 ) = -4.001 BETA ( 2 ) = .191

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BA .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CH

.637	-.0854	-.1963	-.3402
.650			
.670			
.700			
.725			
.750			
.760			
.775			
.798			
.808			
.834			
.839			
.850			
.857			
.862			
.865			
.879			
.900			
.905			
.919			
.950			
.953			
.955			
.965			
1.000			

ALPHA ( 1 ) = -3.983 BETA ( 3 ) = 4.275 MACH = 1.3930 Q = 598.57 P = 440.65 RV/L = 2.9057

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BA .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CH

.010	-.0767	-.0363	.0429	-.2755	-.3952	-.2985	-.2828
.020	.0000	-.0485	.0142	-.4036	-.4332	-.4626	-.4654
.040		-.0439	-.0711				
.050	-.0830			-.3621	-.4527	-.4878	-.4908
.069							
.080							
.081							
.086							
.094	-.0859	-.0048					
.150							
.157							
.163							

(XEBL 76)

DATE 10 FEB 76  
 TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )  
 AMES 11-073(CA148) -140A/B/C ORB LEFT WING BOT

ALPHA ( 1 ) = -3.983 BETA ( 3 ) = 4.275

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BN	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CH	.177	.229	.246	.250	.274	.345	.390	.400
	-.0547	-.0458		-.1322	-.1833	-.3699	-.4117	
			-.0867					-.4721
		-.0812		-.1090	-.1286		-.3592	
			-.0843					-.4314
			-.3077		-.1084		-.1676	
		-.0648			-.1638		-.2193	
				-.1478	-.1567			
			-.1554			.1065	.1141	
				.0898	.0483			
	-.1751		-.1503					
		.0404		.0081	-.0426	.0066		
			-.0016					-.1424
	.0595							
	-.0334			-.0821			-.0302	
	-.0753							
		-.1064						
			-.1538	-.0998	-.1014			
			-.1413					
		-.1433						
	-.1468							
			-.2335		-.1725		-.1858	
1.000								













DATE 10 FEB 76

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 2991

AMES 11-073(0A148) -140A/B/C ORB LEFT WING BOT

(XEBL76)

ALPHA ( 3 ) = 3.962 BETA ( 2 ) = .187 MACH = 1.3919 Q = 599.88 P = 442.29 RN/L = 2.9174

SECTION ( 1 ) LEFT WING BOT SURF

DEPENDENT VARIABLE CP

2Y/8W	.2990	.3540	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.0343	-.1502	.3522	.3026	.2073	.1933	.2051	
.020	.0000	-.0590	.3560	.2231	.1794	.1155	.0587	.0565
.040		-.0299	.2302					
.050	.0149			.1096	.0628	.0914	.0542	.0321
.069				.0971				
.080			.1475					
.081		.0660						
.086	.0108			.0741	.0830	.0962	.1064	-.0793
.094								
.150								
.157		.1827						
.163			.1017					
.177	.0051							
.229		.0939		.0886	.0849	.0938	.0665	.0093
.245			.0931					
.274								
.345		.0822						
.390				.0833	.0921		.0591	
.400		.0774						-.0343
.402				.0782	.0839		.0134	
.503			-.3996					
.550		.0712						.1377
.565						.0164		
.600					-.0243			
.637				-.0164				
.650								
.670								
.700								
.725								
.750						.3803	.3045	
.760			-.0401	.3110	.2622			
.775								
.798		-.0471	.2886					
.808								
.834	-.0599	.2328		.1712	.1246	.1538		-.0334
.839								
.850								
.857			.1835					
.852								
.865								
.877								
.900	.2380	.1212						
.905	.0646		.0608				.0928	
.919		.0702						
	.0292							

DATE 10 FEB 76

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 2592

(XEBL76)

AMES 11-073(0A148) -140A/B/C ORB LEFT WING BOT

ALPHA ( 3 ) = 3.962 BETA ( 2 ) = .187

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CH

.950 -.0001 .0292 .0013

.953

.955 -.0409

.965

1.000 -.1324

ALPHA ( 3 ) = 3.963 BETA ( 3 ) = 4.246 MACH = 1.3919 Q = 599.88 P = 442.29 RN/L = 2.9174

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CH

.010 -.1674 -.3851 .2626 .3416 .2352 .2192 .2458

.020

.040 -.0000 -.1948 .3005 .2709 .2058 .1565 .1247

.050

.069 -.0502 .1582 .1027 .1141 .1154

.080

.081 .1347

.085

.094 -.0138

.150

.157 -.0397

.163

.177 .1478

.229

.246 .0232

.250

.274 .0892

.345

.390 .0892

.400

.432 .0891

.503

.550 .0837

.563

.600 -.3996

.600

.637 .0811

.650

.670 .0236

.700

.725 -.0124

.750

.760 -.0053

.3554 .3054

REPRODUCIBILITY OF THE  
ORIGINAL PAGE IS POOR

DATE 10 FEB 76

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 2993

(XEBL76)

ALPHA ( 3 ) = 3.963 BETA ( 3 ) = 4.246

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/84 .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CH

.775  
.799  
.808  
.834  
.839  
.850  
.857  
.862  
.855  
.879  
.900  
.905  
.919  
.950  
.953  
.955  
.965  
1.000

-.0274  
-.0562  
.2136  
.1646  
.1148  
.0552  
.0200  
-.0148  
-.0304  
-.0443  
-.1488  
-.1540  
-.3815

.3494 .2771  
.1831 .1356 .1581  
.0562 .0818  
-.0149 .0297 .0269  
-.0148  
-.0464

ALPHA ( 4 ) = 7.887 BETA ( 1 ) = -3.866 MACH = 1.3932 Q = 600.00 P = 441.59 RN/L = 2.9153

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/84 .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CH

.010  
.020  
.040  
.050  
.069  
.080  
.081  
.086  
.094  
.150  
.157  
.163  
.177  
.229  
.245  
.250  
.274  
.345  
.390

-.1273  
.0035  
.0424  
.0833  
.0149  
.0801  
.0861  
.0941  
.150  
.157  
.163  
.177  
.229  
.245  
.250  
.274  
.345  
.390

.4346  
.4635  
.3588  
.2876  
.2494  
.2622  
.1537  
.2919  
.2025  
.1769  
.1943  
.1942  
.2595  
.2864  
.2933  
.2452  
.2224  
.1334

.5236  
.3917  
.3588  
.2876  
.2494  
.2622  
.1537  
.2919  
.2025  
.1769  
.1943  
.1942  
.2595  
.2864  
.2933  
.2452  
.2224  
.1334

.5278  
.4176  
.3997  
.3563  
.1544  
.0281



(XEBL 76)

ALPHA ( 4 ) = 7.887      BETA ( 1 ) = -3.866

SECTION (1) LEFT WING BOT SURF

DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
-------	-------	-------	-------	-------	-------	-------	-------	-------

**X/CW**

.400	.1949	.2435	.2040
.402	.1790		
.503			
.550		.1968	.0837
.565	-.4243		
.600			
.637	.1522		.1199

.637	.1522	.1199	
.650			
.670		.:072	
.700			.2773

.700	.0663	.2713
.725		
.750	.0703	
.760		
	.0289	.4642
		.4423

[illegible]

.808	.4207	
.834		
.832	.0008	
.850	.3599	
		2548
		23922
		2411

.850	.2648	.2375	.2440
.857	.2830		
.862			
.865	.3635		.0545

.863	.3635	.2180	.1539	.1779	.0543
.879					
.900	.1430				
.905		.1365			

.905	.1365		
.919	.1034		
.950		.0739	.1120
.953		.0504	.0945
			.1175

[illegible]

1.0000					
HA ( 4 ) =	7.964	BETA ( 2 ) =	-.1466	-.2925	-.4858
				.189	MACH = 1.3932
					Q

SECTION ( ) LEFT WING BOT SURF	DEPENDENT VARIABLE CP
.2990	.4270
.3640	.5210

CH	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
CH								
CH								

050	.0228		7.107			
.040	-.0771					
.020	.0000					
.010	-.3490					
			.2797	.5270	.5340	.5270
			.3577	.4216	.4381	.4141
			.3252			.0177

.050	.0228	.3197	.2963	.3334	.3645	.0606
.069						
.080						

100



DATE 10 FEB 76 TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )  
ALPHA ( 4 ) = 7.954 BETA ( 2 ) = .189  
SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP  
2Y/BW .2930 .3640 .4270 .5340 .6730 .7800 .8870 .9720  
(XEBL76)

SECTION ( 1 ) LEFT WING BOT SURF	DEPENDENT VARIABLE CP	ORF LEFT WING BOT
2Y/BW	.2930 .3640 .4270 .5340 .6730 .7800 .8870 .9720	
X/CM		
.081	.2477	
.086	.0700	
.094	.0421	
.150	.2013 .2630 .2812 .2858	
.157		-.0534
.163	.2374	
.177	.1942	
.229	.0529	
.246	.1633	
.250	.2058 .2305 .2443 .2163	
.274	.1961	
.345	.1736	.0849
.400	.1767	
.402	.1945 .2374 .2072	
.503	.1742 .1926	.0386
.550	-.4546	
.565		.1018
.600	.1556	
.637		.0997
.650		
.670		.2331
.700		
.725	.0647	
.750	.4738 .3849	.4158
.775	.0371	
.798	.0324	
.808	.4294	
.844		
.849	.0156	
.877	.3452	
.882	.2769	.2477
.885		
.879	.2752 .2374	.0135
.900	.1459	
.935	.1344	.1507
.919	.1000	
.950	.0666 .1045 .0939	
.953	.0469	
.955	.0276	
.965	.0184	
1.000	-.1757	-.2621
		-.4882

DATE 10 FEB 76

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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(XEBL76)

AMES 11-073(0A148) -140A/B/C ORB LEFT WING BOT

ALPHA ( 4 ) = 7.961 BETA ( 3 ) = 4.247 MACH = 1.3932 Q = 800.00 P = 441.59 RV/L = 2.9153

SECTION ( 1 ) LEFT WING BOT SURF

DEPENDENT VARIABLE CP

2Y/8W	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CH								
.010	-.2876	-.4350	.0966	.4845	.4550	.5091	.5004	
.020	.0000	-.2268	.2155	.4211	.4146	.4331	.4177	-.1062
.040		-.1715	.2566	.3179	.3090	.3297	.3660	
.050	-.0557			.2636				-.0272
.069			.1997					
.080		-.0020						
.085								
.094	-.0183			.2098	.2600	.2732	.2830	-.0809
.150								
.157		.1765						
.163			.1710					
.177								
.229	.0188			.2008	.2241	.2377	.2246	
.246								
.250			.1892					.0392
.274				.1926	.2306	.2159		
.345		.1578						.0038
.390			.1712	.1745	.1898			
.402								
.503								
.550								
.565			-.4291					
.600		.1590				.1096		
.637								.2136
.650					.0682			
.670				.0658		.4470	.4224	
.700								
.725								
.750								
.760			.0378	.4808	.3958			
.798		.0574						
.808			.3969					
.834	.0152							
.839		.3180						
.850			.2544	.2727	.2368	.2638		-.0007
.857								
.862								
.865	.3166							
.879		.2076						
.922	.1565			.1415				.1453
.905			.1306					
.919		.1054						

DATE 10 FEB 76 TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

(XEBL76)

AMES 11-073(0A148) -140A/B/C ORB LEFT WING BOT

ALPHA ( 4 ) = 7.961 BETA ( 3 ) = 4.247

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/B4 .2990 .3640 .4270 .5340 .6730 .7800 .8670 .9720

X/CH

.950  
.953  
.955  
.965  
1.000  
X/CH  
.0588 .0957 .1123  
.0510  
.0363  
.0332  
- .1599 - .1816 - .4454

ALPHA ( 5 ) = 11.871 BETA ( 1 ) = -3.849 MACH = 1.3930 Q = 600.10 P = 441.82 RN/L = 2.9827

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/B4 .2990 .3640 .4270 .5340 .6730 .7800 .8670 .9720

X/CH

.010  
.020  
.040  
.050  
.059  
.081  
.086  
.094  
.150  
.157  
.163  
.177  
.229  
.246  
.250  
.274  
.345  
.390  
.400  
.402  
.503  
.550  
.555  
.600  
.637  
.650  
.670  
.700  
.725  
.750  
.760  
X/CH  
.6839 .6614 .7257 .7306  
.5781 .6078 .6289 .6473  
.4787 .4927 .5154 .5623  
.4092  
.3806  
.1842  
.3723  
.3178  
.2755  
.3411 .3691 .4014 .3841  
.3176 .3846 .3684  
.2934  
.2977 .3193  
- .4535  
.2631  
.1651  
.1601  
.2065  
.3609  
.6296 .5600  
.1400  
X/CH  
.0725  
.1541  
.0014  
.1816  
.1524  
.1957  
.3609  
.5600  
.1400

DATE 10 FEB 76

## TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-: )

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AMES 11-073(0A148) -140A/B/C ORB LEFT WING BOT

(XEBL76)

ALPHA ( 5 ) = 11.871 BETA ( 1 ) = -3.849

## SECTION ( 1 ) LEFT WING BOT SURF

DEPENDENT VARIABLE CP

2Y/8W	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.775								
.798		.1332		.6739	.5408			
.808			.5713					
.834	.1148							
.839		.4797						
.850				.3705	.3332	.3442		
.857			.3684					.1041
.862								
.865	.5110							
.879		.2901						
.900	.2504			.2295			.2400	
.905			.2036					
.919		.1752						
.950			.1159	.1325	.1752	.1728		
.953		.0823						
.955	.0599							
1.000								

ALPHA ( 5 ) = 11.913 BETA ( 2 ) = -.1393

MACH = 1.3930

Q = 600.10

P = 441.82

RN/L = 2.9227

## SECTION ( 1 ) LEFT WING BOT SURF

DEPENDENT VARIABLE CP

2Y/8W	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010								
.020			.1861	.6213	.6204	.6651	.6648	
.040		.1462	.3268	.5464	.5764	.5991	.6085	-.0811
.050		.0836	.3818					
.069	.0289			.4566	.4796	.4949	.5318	
.080								.0414
.091			.3168					
.086		.1045						
.094	.0715							
.150				.3449	.4008	.4201	.4308	-.0356
.157								
.163		.3017						
.177			.2933					
.179	.1175							
.246		.2366						
.250								
.274			.3031					
.345				.3219	.3522	.3868	.3608	
.390		.2739						.1215









DATE 10 FEB 76

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 3002

(XEBL76)

AMES 11-073(0A148) -140A/B/C ORB LEFT WING BOT

ALPHA ( 6 ) = 15.905 BETA ( 1 ) = -3.830

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW .2930 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.950

.953

.955

.965

1.000

.1810

.1507

.1312

-.1847

.1947

.2385

.2469

-.3399

-.5781

ALPHA ( 6 ) = 15.917 BETA ( 2 ) = .190 MACH = 1.3921 Q = 600.28 P = 442.53 RN/L = 2.5208

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.010

.020

.040

.050

.069

.092

.081

.096

.1098

.150

.157

.163

.177

.229

.246

.250

.274

.345

.330

.400

.402

.503

.550

.565

.600

.637

.650

.670

.700

.725

.750

.760

-.3101

-.4035

.0880

.2904

-.0877

.0452

.069

.092

.1388

.3682

.3975

.1739

.229

.246

.250

.274

.345

.330

.400

.402

.503

.550

.565

.600

.637

.650

.670

.700

.725

.750

.760

.6606

.6872

.6953

.6809

.6175

.6389

.6627

.5105

.3927

.4614

.5418

.5824

.5512

.4354

.5035

.5446

.4825

.4529

.4959

.4279

.4150

.4077

.2507

.2679

.2480

.7388

.6195

.3119

.1580

.1680

.3994

.0145

-.0458

DATE 10 FEB 76

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 3003

(XEBL76)

AMES 11-073(0A148) -140A/B/C ORB LEFT WING BOT

ALPHA ( 6 ) = 15.917 BETA ( 2 ) = .190

SECTION ( 1 ) LEFT WING BOT SURF

DEPENDENT VARIABLE CP

2Y/BM .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CM

.775	.7947	.6543					
.798	.3402	.6461					
.808							
.834	.2258	.5408					
.839							
.850			.4356	.3895	.4137		
.857		.4243					
.862							.1239
.865	.5666						
.879		.3782					
.900	.3431		.2854			.2957	
.905		.2514					
.919			.1857	.2265	.2466		
.950							
.953		.1843					
.955		.1644					
.965	.1629						
1.000							

ALPHA ( 6 ) = 15.907 BETA ( 3 ) = .4290 MACH = 1.3921 Q = 600.28 P = 442.53 RN/L = 2.9208

SECTION ( 1 ) LEFT WING BOT SURF

DEPENDENT VARIABLE CP

2Y/BM .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CM

.010	.5279	.5778	.5645	.5498			
.020	.5507	.5925	.6150	.6021			
.040	.5106	.5585	.5755	.5988			
.050	.4679						
.059							
.080	.3175						
.081							
.086	.0510						
.094							
.150	.4240	.4904	.5467	.5154			
.157							
.163	.2998						
.177	.3386						
.223	.1265						
.246	.2706						
.250							
.274							
.345	.3833						
.350							

.1189



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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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(XEBL77) ( 05 AUG 75 )

AMES 11-073(0A148) -140A/B/C ORB LEFT WING BOT

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. X0  
 LREF = 474.8000 IN. YMRP = .0000 IN. Y0  
 BREF = 936.0690 IN. ZMRP = 375.0000 IN. Z0  
 SCALE = .0300

## PARAMETRIC DATA

RUDDER = -10.000 SPDBRK = .000  
 BOFLAP = -11.700 L-ELVN = 10.000  
 R-ELVN = -10.000 MACH = 1.250

ALPHA ( 1 ) = -4.016 BETA ( 1 ) = -3.849 MACH = 1.2454 Q = 599.83 P = 552.28 RN/L = 3.0204

## SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.1516	-.2839	-.1995	-.4080	-.5140	-.3602	-.3274	
.020	.0000	-.2722	-.3088	-.5588	-.5521	-.5707	-.5662	-.6091
.040		-.2614	-.3361					
.050	-.1556			-.5828	-.5806	-.6033	-.5947	-.6620
.069								
.080				-.5437				
.081				-.2368				
.086		-.1440						
.094	-.1512							
.150				-.5044	-.5178	-.5327	-.5446	-.3873
.157								
.163		-.0459						
.177		-.2196						
.229	-.1273							
.246		-.1404						
.250				-.2394	-.4651	-.4809	-.5018	
.274			-.2036					-.5969
.345								
.390		-.1720		-.2030	-.2648		-.4459	
.400			-.1644					-.5612
.402				-.1464	-.1769			
.503			-.3718					
.550								
.565								
.600								
.637		-.1124						
.650								
.670								
.700								
.725								
.750				-.1984	-.2229			-.4570
.760								
.775								
.798		-.1938						
.808				.0887	.0166			
.839		-.1782						
.850	-.2091	.0657						
				-.0232	-.0286	-.0068		

DATE 10 FEB 76

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 3006

(XEBL77)

AMES 11-073(0A148) -140A/B/C ORB LEFT WING BOT

ALPHA ( 1 ) = -4.016 BETA ( 1 ) = -3.849

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW	.0036						
.857							
.862							
.865							
.879							
.900							
.935							
.919							
.950							
.953							
.965							
1.000							

ALPHA ( 1 ) = -4.011 BETA ( 2 ) = .186 MACH = 1.2454 Q = 599.63 P = 552.28 RN/L = 3.0204

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW							
.010							
.020							
.040							
.050							
.069							
.080							
.091							
.086							
.094							
.150							
.157							
.163							
.177							
.223							
.246							
.250							
.274							
.345							
.390							
.570							
.533							
.550							
.565							
.600							

(XEBL77)

ORR LEFT WING BOT

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

DATE 10 FEB 76

ALPHA ( 1 ) = -4.011 BETA ( 2 ) = .186

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/8W .2930 .3540 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.637 -.0927  
.650  
.670 -.1962  
.700 -.2013  
.725  
.750  
.760  
.775  
.798  
.808  
.834  
.839  
.850  
.857  
.862  
.865  
.879  
.900  
.905  
.919  
.950  
.953  
.955  
.965  
1.000

-.4712

-.1900 .1429 .1191

.1153 .0333

-.1917 .1078

-.2062 .0614 .0000

-.0152 -.0428 .0054

-.3589

-.1231 -.0714

-.1160

-.1763 -.1171 -.1322

-.2070

-.2081

-.2631 -.2301

-.1400

ALPHA ( 1 ) = -4.020 BETA ( 3 ) = 4.275 MACH = 1.2454 Q = 599.63 P = 552.28 RW/L = 3.0204

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/8W .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.010  
.020  
.040  
.050  
.059  
.080  
.081  
.096  
.094  
.150  
.157  
.153

-.7022  
-.6742

-.3891

-.1159

-.2139 -.4843 -.5560 -.5826

-.3931

.0582

**DATE 10 FEB 76**

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

(XEBL 77)

APES 11-073(OA148) -140A/B/C ORB LEFT WING BOT

$$\text{ALPHA} (1) = -4.020 \quad \text{BETA} (3) = 4.275$$

SECTION ( )	LEFT WING BOT SURF	DEPENDENT VARIABLE CP
1	0.0000	0.0000
2	0.0000	0.0000
3	0.0000	0.0000
4	0.0000	0.0000
5	0.0000	0.0000
6	0.0000	0.0000
7	0.0000	0.0000
8	0.0000	0.0000
9	0.0000	0.0000
10	0.0000	0.0000
11	0.0000	0.0000
12	0.0000	0.0000
13	0.0000	0.0000
14	0.0000	0.0000
15	0.0000	0.0000
16	0.0000	0.0000
17	0.0000	0.0000
18	0.0000	0.0000
19	0.0000	0.0000
20	0.0000	0.0000
21	0.0000	0.0000
22	0.0000	0.0000
23	0.0000	0.0000
24	0.0000	0.0000
25	0.0000	0.0000
26	0.0000	0.0000
27	0.0000	0.0000
28	0.0000	0.0000
29	0.0000	0.0000
30	0.0000	0.0000
31	0.0000	0.0000
32	0.0000	0.0000
33	0.0000	0.0000
34	0.0000	0.0000
35	0.0000	0.0000
36	0.0000	0.0000
37	0.0000	0.0000
38	0.0000	0.0000
39	0.0000	0.0000
40	0.0000	0.0000
41	0.0000	0.0000
42	0.0000	0.0000
43	0.0000	0.0000
44	0.0000	0.0000
45	0.0000	0.0000
46	0.0000	0.0000
47	0.0000	0.0000
48	0.0000	0.0000
49	0.0000	0.0000
50	0.0000	0.0000
51	0.0000	0.0000
52	0.0000	0.0000
53	0.0000	0.0000
54	0.0000	0.0000
55	0.0000	0.0000
56	0.0000	0.0000
57	0.0000	0.0000
58	0.0000	0.0000
59	0.0000	0.0000
60	0.0000	0.0000
61	0.0000	0.0000
62	0.0000	0.0000
63	0.0000	0.0000
64	0.0000	0.0000
65	0.0000	0.0000
66	0.0000	0.0000
67	0.0000	0.0000
68	0.0000	0.0000
69	0.0000	0.0000
70	0.0000	0.0000
71	0.0000	0.0000
72	0.0000	0.0000
73	0.0000	0.0000
74	0.0000	0.0000
75	0.0000	0.0000
76	0.0000	0.0000
77	0.0000	0.0000
78	0.0000	0.0000
79	0.0000	0.0000
80	0.0000	0.0000
81	0.0000	0.0000
82	0.0000	0.0000
83	0.0000	0.0000
84	0.0000	0.0000
85	0.0000	0.0000
86	0.0000	0.0000
87	0.0000	0.0000
88	0.0000	0.0000
89	0.0000	0.0000
90	0.0000	0.0000
91	0.0000	0.0000
92	0.0000	0.0000
93	0.0000	0.0000
94	0.0000	0.0000
95	0.0000	0.0000
96	0.0000	0.0000
97	0.0000	0.0000
98	0.0000	0.0000
99	0.0000	0.0000
100	0.0000	0.0000

2Y/8W	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
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MD/X

[illegible]

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## TABULATED PRESSURE DATA - OA148 ( AMES 11-073-1 )

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ALPHA ( 2 ) = .012 BETA ( 1 ) = -3.863 MACH = 1.2451 Q = 599.58 P = 592.51 RN/L = 3.0183  
 (XEBL77)

## SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/DW	.2920	.3540	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	.0018	.0071	.2150	-.1854	-.2999	-.2223	-.1328	
.020	.0000	-.0230	.1767	-.3311	-.3560	-.3668	-.3975	-.3272
.040		-.0194	-.0096					
.050	-.0383			-.2438	-.3392	-.3842	-.4085	
.069								-.3626
.080				-.2180				
.081			-.0493					
.086		.0272						
.094	-.0626							
.150				-.1502	-.2308	-.2782	-.3224	-.2349
.157		.0994						
.163								
.177			-.0673					
.229	-.0606							
.246		-.0326						
.250								
.274			-.0708					
.345				-.0939	-.0960	-.2034	-.2687	
.390								-.2233
.400		-.0517						
.402			-.0543					
.503				-.0670	-.0727			-.1248
.550								
.565			-.4339					-.1493
.600				-.0376	-.0512			
.637	-.0271							-.1279
.650								
.670				-.1175				
.700								.0051
.745			-.1179		-.1348			
.750								
.760								
.775			-.1302					
.778				.2431	.1617	.2616	.2152	
.808			.2286					
.834								
.839	-.1542	.1896						
.850								
.857			.1023			.0647		
.852								-.1285
.855		.2134						
.879		.0456						
.902	-.0090							
.905			-.0177					-.0275
.919		-.0734						



DATE 10 FEB 76 TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

(XEBL77)

AMES 11-073(0A148) -140A/B/C ORB LEFT WING BOT

ALPHA ( 2 ) = .012 BETA ( 1 ) = -3.863

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.950 -.0877 -.0538 -.0916

.953 -.1168

.955 -.1447

.965 -.1480

1.000

ALPHA ( 2 ) = .014 BETA ( 2 ) = .176 MACH = 1.2451 Q = 599.58 P = 552.51 RN/L = 3.0183

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW .2990 .3540 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.010 -.0410 .0013 .2647 -.1711 -.3184 -.2645 -.1868

.020 .0700 -.0082 .2263 -.1977 -.3036 -.3893 -.4330

.040 .0400 .0030 .0488 -.1786 -.2933 -.3756 -.4299

.050 -.0514

.069 .069

.080 .080

.081 .081

.086 .086

.094 .094

.150 .150

.157 .157

.163 .163

.177 .177

.229 .229

.246 .246

.250 .250

.274 .274

.345 .345

.390 .390

.400 .400

.402 .402

.503 .503

.550 .550

.565 .565

.600 .600

.637 .637

.650 .650

.680 .680

.700 .700

.725 .725

.750 .750

-.1247

-.1120

-.1217

-.1004

-.1070

-.1552

-.0991

-.2202

-.3306

-.1543

-.2451

-.0360

.1180

-.0529

-.0078

-.0250

-.0583

-.0869

-.1224

-.0874

-.0207

-.0157

-.0276

-.04723

-.0058

-.0422

.2656

.2223

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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(XEBL77)

AMES 11-07310A148) -140A/B/C ORB LEFT WING BOT

ALPHA ( 2 ) = .014 BETA ( 2 ) = .176

SECTION ( 1 ) LEFT WING BOT SURF

DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.775	.2563	.1655	
.798			
.808	-.1249	.2359	
.834			
.839	.1784		
.850		.0818	.0662
.857		.0981	
.862			
.865			
.879	.0476		
.900		-.0277	-.0190
.905	-.0468		
.919			
.950	-.0804		
.953		-.1033	-.0456
.955	-.1357		-.0761
.955	-.1482		
.955			
1.000	-.1598		
		-.1621	-.1265
			-.3143

-.1398

ALPHA ( 2 ) = .026 BETA ( 3 ) = 4.255 MACH = 1.2451

Q = 599.58 P = 552.51

RN/L = 3.0163

SECTION ( 1 ) LEFT WING BOT SURF

DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.010	-.1257	-.0630	.2946	-.0566	-.2772	-.2752	-.2049
.070	.0000	-.0343	.2656	-.0633	-.1901	-.3578	-.4306
.040		-.0190	.1213				-.1921
.040	-.0891			-.1110	-.2318	-.2813	-.3555
.069							-.1659
.080				-.0784			
.081			.0459				
.086		.0483					
.094	-.0929			-.0626	-.0903	-.1015	-.1161
.150							
.157							
.163		.1376					-.1425
.177		.0002					
.229	-.0560						
.245		.0282					
.250							
.274				-.0203	-.0481	-.0559	-.0919
.345		.0121					
.390							-.0916
		.0215					

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 3012

(XEBL77)

AMES 11-073(0A148) -140A/B/C ORB LEFT WING BOT

ALPHA ( 2 ) = .026 BETA ( 3 ) = 4.255

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CM

.400 .0005 .0104 -.0591

.402 .0078

.503 -.1290

.550 -.0055 -.0103

.565 -.4160

.600 -.0001

.637 -.0912

.650 .0547

.670

.700 -.1133

.725 -.1095

.750 .2576 .2229

.760 .2660 .1695

.775 -.1190

.798 -.0852

.808 .2352

.834 .0878 .0569 .0681

.839 .1445

.850 .0825

.857 -.1595

.862

.863

.879 .1561

.879 .0354

.900 -.0229

.905 -.0431

.919 -.0819

.950 -.1223 -.0582 -.0758

.953 -.1446

.955 -.1334

.965 -.1518

1.000 -.1650 -.1666 -.2863

ALPHA ( 3 ) = 3.987 BETA ( 1 ) = -3.868 MACH = 1.2451 Q = 599.99 P = 552.51 RNU/L = 3.0187

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CM

.010 .0369 -.0516

.020 .0300 -.0044

.040 .3999 .1321 .1464 .1723

.040 .0193 .1359 .1162 .0585 .0087

.069 .0359 .0530 .0075 .0367 .0221

.080 .0521

.080



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## TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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ALPHA ( 3 ) = 3.988 BETA ( 2 ) = .182 MACH = 1.2451 Q = 599.58 P = 552.51 RNU/L = 3.0187  
 (XEBL77)

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP ORB LEFT WING BOT

27/84	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CM								
.010	-.0930	-.2389	.3707	.2924	.1669	.1646	.1951	
.020	.0000	-.1157	.3733	.1821	.1466	.0987	.0577	.0241
.040		-.0750	.2508					
.050	-.0214			.1179	.0412	.0721	.0604	.0035
.069								
.080				.1023				
.081			.1551					
.095		.0650						
.094	-.0201			.0640	.0959	.0982	.0855	-.0925
.150								
.157		.2054						
.163			.1024					
.177	-.0304							
.229		.0873		.0906	.0793	.0896	.0450	-.0059
.246								
.250			.0981					
.274								
.345		.0889		.0595	.1148		.0714	-.0511
.390								
.400			.0885	.0925	.1021			
.402								
.503								
.550								
.565								
.600								
.637								
.650		.0890						
.670								
.700								
.745								
.750								
.760								
.775								
.794								
.809								
.844								
.839		.2830						
.850								
.857								
.862								
.865								
.879								
.900								
.905								
.919								

-.0910

.0488

DATE 10 FEB 76 TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

(XEBL77)

AMES 11-073(0A148) -140A/B/C ORB LEFT WING BOT

ALPHA ( 3 ) = 3.988 BETA ( 2 ) = .182

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CM  
 .950  
 .953  
 .955  
 .965  
 1.000  
 -.1009  
 -.0836  
 -.0588  
 -.0455 .0045 -.0147  
 -.1122 -.1520 -.4314

ALPHA ( 3 ) = 3.988 BETA ( 3 ) = 4.246 MACH = 1.2451 Q = 539.58 P = 552.51 RN/L = 3.0187

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CM  
 .010  
 .020  
 .040  
 .050  
 .069  
 .080  
 .081  
 .086  
 .094  
 .150  
 .157  
 .163  
 .177  
 .229  
 .246  
 .250  
 .274  
 .345  
 .390  
 .400  
 .402  
 .503  
 .550  
 .565  
 .600  
 .637  
 .650  
 .670  
 .700  
 .725  
 .750  
 .760

.2582 -.3625 .2762 .3460 .2089 .2355 .2530  
 .0000 -.2149 .3230 .2423 .1791 .1724 .1301 -.0469  
 -.0991 -.1562 .2606 .1709 .0924 .1151 .1272 -.0325  
 .1397  
 .1715  
 .0116  
 -.0795  
 .1026 .1244 .1189 .1124 -.1047  
 .1856  
 .1120  
 .0965  
 .1119 .1043 .1139 .0781  
 .1219  
 .1246 .1479 .0913  
 .1175  
 .0995 .1004  
 -.4694  
 .0946  
 -.0245  
 -.0003  
 .1419  
 -.0244  
 -.0438  
 .3981 .3343  
 -.0210

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) - 140A/B/C ORB LEFT WING BOT

(XEBL77)

ALPHA ( 3 ) = 3.983 BETA ( 3 ) = 4.246

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BM .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CM

.775			.4605	.3283			
.798	.0232						
.808		.3428					
.834	-.0462						
.839		.2436					
.850			.1741	.1417	.1597		
.857		.1597					
.862							-.1178
.865	.2564						
.879		.1185					
.920	.0689		.0325			.0349	
.905		.0191					
.919	-.0071						
.950		-.0677	-.0628	-.0042	-.0198		
.953	-.0732						
.955							
.965	-.0819						
1.000			-.1652	-.1601		-.4045	

ALPHA ( 4 ) = 7.974 BETA ( 1 ) = -3.859 MACH = 1.2449 Q = 599.64 P = 552.75 RW/L = 3.0238

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BM .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CM

.010	-.0353	-.2431	.4026	.5497	.4923	.5726	.5866
.020	.0000	-.0506	.4567	.4123	.4311	.4515	.4680
.040		-.0144	.3784				
.050	.0667			.3147	.3183	.3473	.3831
.060							.1254
.080			.2795				
.086		.1302					
.034	.0508			.2223	.2750	.3053	.2957
.150							-.0328
.157							
.163		.2959	.2057				
.177							
.229	.0598						
.2-6		.1771					
.250				.2253	.2370	.2785	.2387
.274		.2083					
.345							.0785
.390		.1858					

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 AXES 11-073(0A148) -140A/B/C ORB LEFT WING BOT (XEBL77)

ALPHA ( 4 ) = 7.974 BETA ( 1 ) = -3.859

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW .2990 .3540 .4270 .5340 .5730 .7800 .6870 .9720

X/CH

.400  
 .402  
 .503  
 .550  
 .565  
 .600  
 .637  
 .650  
 .670  
 .700  
 .725  
 .750  
 .775  
 .799  
 .829  
 .844  
 .839  
 .650  
 .857  
 .892  
 .865  
 .879  
 .500  
 .915  
 .919  
 .950  
 .953  
 .955  
 .965  
 1.000

.1995  
 .2224  
 .2957  
 .2236  
 .0398  
 .2026  
 .1896  
 .0628  
 .1750  
 .0738  
 .2601  
 .0530  
 .0300  
 .5538  
 .4510  
 .6373  
 .4853  
 .0850  
 .4915  
 .0327  
 .4009  
 .2634  
 .2702  
 .2272  
 .2241  
 -.0108

ALPHA ( 4 ) = 7.979 BETA ( 2 ) = .184 MACH = 1.2449 Q = 599.64 P = 552.75 RN/L = 3.0238

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW .2990 .3540 .4270 .5340 .6730 .7800 .8870 .9720

X/CH

.810  
 .8251  
 .820  
 .840  
 .850  
 .869  
 .880  
 .2251  
 .4722  
 .2201  
 .3354  
 .3316  
 .3520  
 .3489  
 .3633  
 .4012  
 .0165  
 .5583  
 .5119  
 .5666  
 .4619  
 .4780  
 -.0497  
 .2899



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## TABULATED PRESSURE DATA - OA148 ( AMES 11-073-1 )

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(XEBL77)

AMES 11-073(OA148) -140A/B/C ORB LEFT WING BOT

ALPHA ( 4 ) = 7.979 BETA ( 2 ) = .184

SECTION ( 1 ) LEFT WING BOT SURF	DEPENDENT VARIABLE CP			
2Y/BH	.2990	.3640	.4270	.5340 .6730 .7800 .8870 .9720
X/CH	.081	.086	.094	.150
	.157	.163	.177	.229
	.245	.250	.274	.345
	.330	.400	.402	.503
	.550	.565	.600	.637
	.670	.700	.725	.750
	.760	.775	.798	.808
	.839	.850	.857	.862
	.855	.879	.900	.905
	.919	.950	.953	.955
	.965	1.000		

-.5573



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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

(XEBL77)

AMES 11-073(0A148) -140A/B/C ORB LEFT WING BOT

ALPHA ( 4 ) = 7.978 BETA ( 3 ) = 4.242

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW .950  
-0.0002X/CW .953  
-0.0050X/CW .955  
-0.0067X/CW .955  
-0.0067

X/CW 1.000

ALPHA ( 5 ) = 11.961 BETA ( 1 ) = -3.847 MACH = 1.2454 Q = 599.63 P = 552.28 RN/L = 3.0229

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW .010  
-0.0002X/CW .020  
-0.0002X/CW .040  
-0.0002X/CW .050  
-0.0002X/CW .069  
-0.0002X/CW .080  
-0.0002X/CW .141  
-0.0002X/CW .157  
-0.0002X/CW .163  
-0.0002X/CW .177  
-0.0002X/CW .229  
-0.0002X/CW .246  
-0.0002X/CW .274  
-0.0002X/CW .345  
-0.0002X/CW .390  
-0.0002X/CW .402  
-0.0002X/CW .503  
-0.0002X/CW .520  
-0.0002X/CW .565  
-0.0002X/CW .620  
-0.0002X/CW .657  
-0.0002X/CW .680  
-0.0002X/CW .700  
-0.0002X/CW .725  
-0.0002X/CW .750  
-0.0002X/CW .760  
-0.0002





(XEBL 77)

AMES 11-073(OA148) -140A/B/C ORB LEFT WING BOT

$$\text{ALPHA} (5) = 11.952 \quad \text{BETA} (3) = 4.260$$

SECTION (1) LEFT WING BOT SURF

2Y/8W	.2990	.4640	.4270	.5340	.6730	.7800	.8870	.9720
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[illegible]

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-873-1 )

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AMES 11-073(0A148) -140A/B/C ORB LEFT WING BOT

(XEBL78) ( 05 AUG 75 )

## REFERENCE DATA

SPEF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO  
 LPEF = 474.8000 IN. YMRP = .0000 IN. YO  
 BPEF = 936.0580 IN. ZMRP = 375.0000 IN. ZO  
 SCALE = .0300

## PARAMETRIC DATA

RUDDER = -10.000 SPDBRK = .000  
 BOFLAP = -11.700 L-ELVN = 10.000  
 R-ELVN = -10.000 MACH = 1.100

ALPHA ( 1 ) = -4.052 BETA ( 1 ) = -3.838 MACH = 1.0993 Q = 599.81 P = 709.06 RN/L = 3.1886

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/84 .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CM

.010	-.1791	-.3399	-.2996	-.6233	-.7451	-.5628	-.5505
.020	.0000	-.3163	-.3763	-.7807	-.7886	-.8083	-.8142
.040	-.2967	-.4122					-.8463
.050	-.1835			-.7265	-.8085	-.8430	-.8418
.060			-.7050				-.9291
.081		-.2939					
.094	-.1435						
.109	-.1882			-.4798	-.7041	-.7373	-.7699
.153		-.0666					-.5054
.163			-.2453				
.177	-.1529						
.229		-.1339					
.245				-.2763	-.5866	-.6720	-.7041
.250			-.1937				
.274							-.8449
.345	-.1514						
.390				-.1597	-.1683	-.6249	
.402		-.1282					-.7804
.503			-.4354	-.1238	-.1528		
.550						-.2768	
.565							
.600							
.637	-.1057						
.650							
.672				-.1803			-.5327
.705			-.2474	-.1925			
.750					.3341	.2195	
.775							
.799		-.1337					
.828	-.1301		.2219	.1668			
.834		.1912					
.839	-.2023						
.850		.1035		.0406	.0356	.0106	

REPRODUCIBILITY OF THIS  
 ORIGINAL PAGE IS POOR









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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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(XEBL78)

AMES 11-073(0A148) -140A/B/C ORB LEFT WING BOT

P = 599.71

Q = 709.30

RV/L = 3.1896

ALPHA ( 2 ) = .040

BETA ( 1 ) =

MACH = 1.0990

Q

SECTION ( 1 ) LEFT WING BOT SURF

DEPENDENT VARIABLE CP

2Y/BN	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.0455	-.0107	.2165	-.3339	-.4714	-.3997	-.3116	
.020	.0000	-.0368	.1345	-.4830	-.5572	-.5636	-.6023	-.4159
.040		-.0251	-.0598	-.3186	-.4668	-.5595	-.6020	-.4131
.050	-.0877			-.2585				
.060			-.0662					
.080		.0254						
.085								
.094	-.1013			-.1781	-.2111	-.3729	-.4633	-.2159
.150								
.157		.0907						
.163			-.0870					
.177								
.229	-.0750							
.240		-.0284						
.250				-.0612	-.0939	-.0937	-.0767	
.274			-.0409					-.0932
.345		-.0085						
.370			.0084	.0036	.0172		-.0204	
.400								-.1554
.402				.0002	-.0376			
.503								
.550			-.5145					
.555								
.600								
.637		.0043						
.650						-.1087		.0530
.670								
.700				-.1287	-.1420			
.725						.4016	.2602	
.750			.0271					
.760				.4041	.3407			
.775		.0000						
.738			.3189					
.802								
.844		-.0779						
.939			.2480					
.950				.1577	.0818	.0547		
.957								
.952			.1017					-.1803
.955	.2939							
.873		.0039						
.900	-.0171			-.0530			-.0891	
.905			-.0791					
.910		-.1172						

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 302S

(XEBL78)

ALPHA ( 2 ) = C40 BETA ( 1 ) = -3.863

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/84 .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/C4

.950 -.1656 -.1173 -.1444

.953 -.1830

.955 -.1897

.965 -.2351

1.000

ALPHA ( 2 ) = .041 BETA ( 2 ) = .186 MACH = 1.0990 Q = 599.71 P = 709.30 RN/L = 3.1896

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/84 .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/C4

.010

.020

.040

.050

.059

.083

.086

.094

.150

.157

.163

.177

.229

.246

.250

.274

.315

.340

.400

.402

.503

.550

.555

.620

.637

.650

.670

.700

.726

.750

.760

-.1022 -.0079 .2900 -.2692 -.4550 -.4194 -.3333

.0000 -.0146 .2203 -.2513 -.4040 -.5521 -.5364

.0086 .0641

-.1053

-.2363 -.3606 -.4512 -.4791

.059

.091

.086

.094

.150

.157

.163

.177

.229

.246

.250

.274

.315

.340

.400

.402

.503

.550

.555

.620

.637

.650

.670

.700

.726

.750

.760

-.1135 -.0890 -.0700 -.1256

-.1135

-.1135

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 3030

(XEBL78)

AMES 11-073(0A148) -140A/B/C CRB LEFT WING BOT

ALPHA ( 2 ) = .041 BETA ( 2 ) = .186

SECTION ( ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BA .2990 .3640 .4270 .5340 .5730 .7800 .8870 .9720

X/CW

.775							
.798	.0440		.4018	.3172			
.808		.3115					
.834	-.0558						
.839	.2298						
.850			.0997	.0855	.0472		
.857		.0890					
.867							
.865	.2545						
.879		.0337					
.900	-.0163		-.0521				
.905							
.919		-.1128					
.950			-.1721	-.1290	-.1441		
.953		-.1841					
.955		-.1776					
.945	-.2171						
.945		-.0516		-.0646	-.0560		
1.000							

-.2089

ALPHA ( 2 ) = .035 BETA ( 3 ) = 4.252 MACH = 1.0990 Q = 599.71 P = 709.30 RN/L = 3.1896

SECTION ( ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BA .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.010	-.2026	-.0377	.3633	-.0786	-.3086	-.3679	-.2933
.020	.0000	-.0133	.3160	-.0334	-.2493	-.3516	-.4534
.040		.0137	.1756				
.050	-.1481			-.0881	-.2323	-.2646	-.3291
.069							
.080			.0905				
.081							
.085		.1004					
.094	-.1182						
.150				-.0161	-.0384	-.0746	-.1090
.157		.2101					
.163							
.177		.0513					
.229	-.0570						
.246		.0853					
.250			.0105	-.0313	-.0555	-.1047	
.274		.0508					
.345							
.340		.0712					

-.1277

-.1481

-.1737

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 AMES 11-073(0A148) -140A/B/C ORB LEFT WING BOT (XEBL78)

ALPHA ( 2 ) =	.036	BETA ( 3 ) =	4.252	DEPENDENT VARIABLE CP	
SECTION ( 1 ) LEFT WING BOT SURF					
2Y/BW	.2990	.3540	.4270	.5340	.6730 .7800 .8870 .9720
X/CW					
.400				.0249	.0279 -.0346
.402			.0372		
.503					
.550					
.565					
.600					
.637					
.650					
.670					
.700					
.725					
.750					
.760					
.775					
.793					
.808					
.824					
.839					
.850					
.857					
.862					
.873					
.900					
.905					
.919					
.950					
.963					
.975					
.995					
1.000					

ALPHA ( 3 ) = 4.005 BETA ( 1 ) = -3.864 MACH = 1.0989 Q = 599.58 P = 709.30 RN/L = 3.1896

SECTION ( 1 ) LEFT WING BOT SURF					
2Y/BW	.2990	.3540	.4270	.5340	.6730 .7800 .8870 .9720
X/CW					
.410					
.420					
.430					
.440					
.450					
.460					
.470					
.480					
.490					
.500					
.510					
.520					
.530					
.540					
.550					
.560					
.570					
.580					
.590					
.600					
.610					
.620					
.630					
.640					
.650					
.660					
.670					
.680					
.690					
.700					
.710					
.720					
.730					
.740					
.750					
.760					
.770					
.780					
.790					
.800					
.810					
.820					
.830					
.840					
.850					
.860					
.870					
.880					
.890					
.900					
.910					
.920					
.930					
.940					
.950					
.960					
.970					
.980					
.990					
1.000					

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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(XEBL78)

ALPHA ( 3 ) = 4.006 BETA ( 1 ) = -3.864

AMES 11-073(0A148) -140A/B/C ORB LEFT WING BOT

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW	.081	.1234	.1456					
	.086							
	.074							
	.150							
	.157							
	.163							
	.177							
	.229							
	.246							
	.274							
	.345							
	.390							
	.400							
	.402							
	.503							
	.550							
	.565							
	.600							
	.637							
	.650							
	.670							
	.700							
	.725							
	.750							
	.760							
	.775							
	.799							
	.808							
	.834							
	.839							
	.850							
	.857							
	.862							
	.865							
	.878							
	.900							
	.905							
	.913							
	.950							
	.963							
	.955							
	.965							
	1.007							

-.4907

-.0193

.0375

-.2034

-.1593

-.0793

-.0538

-.0291

-.1455

.0961

.1000

.1443

.4250

.5573

.0150

-.0931

-.0473

-.0727

.1615

.3603

.5080

.1742

.1503

.1495

.0842

.0875

.1004

.0784

-.0189

-.0790

-.0586

.1151

.1466

.1450

.1130

.5340

.6730

.7800

.8870

.9720

.1456

.1234

.2456

.1106

.1138

.1564

.1740

.1035

.1959

.1731

.1580

.1503

.1495

.0842

.0875

.1004

.0784

-.0189

-.0790

-.0586

.1151

.1466

.1450

.1130

.5340

.6730

.7800

.8870

.9720

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TABULATED PRESSURE DATA - OA148 ( AMES 11-073-1 )

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ALPHA ( 3 )	BETA ( 2 )	AMES 11-073(OA148)	-140A/B/C	ORB LEFT WING BOT	P	RN/L	(XEBL78)
.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
SECTION ( 1 ) LEFT WING BOT SURF							
DEPENDENT VARIABLE CP							
X/CW							
.010	-.1707	-.2059	.4466	.1931	.2878	.3077	
.020	.0000	-.0867	.4305	.1844	.1735	.1842	.0049
.040		-.0475	.2993				
.050	-.0808		.1319	.1220	.1397	.1619	.0030
.069			.1135				
.080			.1935				
.081							
.086	.1065						
.094	-.0852						
.150			.1393	.1627	.1713	.1212	-.0806
.157							
.163	.2720						
.177			.1490				
.229	-.0535						
.246			.1414				
.250			.1648				
.274							
.345	.1828						
.390			.1821	.1617	.1637	.0843	-.0672
.400			.1731	.1816		.0839	
.402			.1921				
.503			.1040	.0755			-.1097
.550			-.6684				
.565							
.600							
.637	.1022						
.650							
.670							
.700							
.725							
.750			.0297				
.760							
.775			.1576				
.799			.5394	.4176			
.808			.3853				
.834	.0408						
.839			.2822				
.850							
.857			.1293				
.862							
.865			.1350	.0834	.0921		
.873							
.899	.3299						
.900							
.905	.0427						
.919							

-0.0428

-0.1698

-0.0709

-0.0443

-0.0724



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TABULATED PRESSURE DATA - OA148 ( AMES 11-073-1 )

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AMES 11-073(OA148) -140A/B/C ORG LEFT WING BOT

(XEBL78)

ALPHA ( 3 ) = 4.004 BETA ( 2 ) = .194

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW .2970 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.950  
 .953  
 .955  
 .955  
 1.000

-.1484  
 -.1805  
 -.1513  
 -.1404 -.0762 -.0952  
 -.0263 -.0454 -.4920

ALPHA ( 3 ) = 4.004 BETA ( 3 ) = 4.242 MACH = 1.0989 Q = 599.58 P = 709.30 RV/L = 3.1896

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

-.010  
 .020  
 .040  
 .050  
 .069  
 .080  
 .081  
 .085  
 .094  
 .150  
 .157  
 .163  
 .177  
 .229  
 .246  
 .250  
 .274  
 .345  
 .390  
 .400  
 .402  
 .503  
 .550  
 .565  
 .600  
 .637  
 .650  
 .670  
 .725  
 .750  
 .760

-.3665 -.3350 .3827 .3844 .2755 .3343 .3444  
 .0000 -.1761 .4181 .2793 .2420 .2362 .2404  
 -.1716 -.1230 .3480 .2275 .1768 .1696 .1867  
 .1976  
 .2597  
 .1788 .1782 .1779 .1196  
 .2082  
 .1927  
 .1799 .1591 .1631 .0697  
 .1836 .1627 .1651 .0568  
 .0912 .0608  
 -.5638  
 .0962  
 .0009  
 -.0889  
 .4645 .3157  
 .1264

-.1433  
 -.1014  
 -.1265

-.1351  
 -.1639

-.1148  
 .0977

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 3035

(XEBL78)

AMES 11-073(0A148) -140A/B/C ORB LEFT WING BOT

ALPHA ( 3 ) = 4.004 BETA ( 3 ) = 4.242

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/8W	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW	.775			.5099	.3678			
.799		.1158						
.808			.3329					
.934	.0094							
.839		.2373						
.850			.1025	.1106	.0690	.0749		
.857								
.862								
.865	.2840							
.879		.0610						
.900	.0310							
.905								
.919								
.950								
.953								
.955								
.965								
1.000								

-.2100

-.0547

-.0578

-.1639

-.1115

-.1069

-.1610

-.1476

-.1352

-.1117

1.4079

ALPHA ( 4 ) = 8.022 BETA ( 1 ) = -3.857 MACH = 1.1003 Q = 600.35 P = 708.37 RN/L = 3.1925

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/8W	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW	.010			.6288	.5998	.6506	.6251	
.020	.0000	.4061	.4601	.5212	.5302	.5377	.5278	
.040		.1574	.5356	.4821				
.050	.0073		.4821	.4101	.4275	.4356	.4270	
.069								
.080				.3605				
.081			.3731					
.086		.0992						
.094	.0147							
.150				.3374	.3583	.3674	.2974	
.157								
.163		.3773						
.177			.3213					
.229	.0157							
.246		.2930						
.250				.3155	.3150	.3042	.2368	
.274			.3127					
.345								
.310		.3078						

.0418

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 3036

(XEBL78)

ALPHA ( 4 ) = 8.022 BETA ( 1 ) = -3.857 AMES 11-073(0A148) -140A/B/C ORB LEFT WING BOT

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW .2990 .3540 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.402	.2805	.2836	.1932				
.503	.3043						.1202
.550		.1823	.1685				
.565	-.6272						
.600							.1654
.637	.1835			.2239			
.650							.1953
.670		.2391					
.700							
.725		.2706		.5156	.3786		
.750		.2993					
.760		.6142	.4498				
.775	.2693	.4508					
.808	.2028						
.834		.3471					
.839				.1732	.1240	.1265	
.850		.1772					-.1140
.857							
.862							
.865	.4490	.1232					
.879	.0840			.0032			-.0080
.905		-.0059					
.919	-.0348			-.1007	-.0292	-.0565	
.950		-.1079					
.953							
.971	-.1232						
.985	-.1500						
1.000		.0156		-.1444			

ALPHA ( 4 ) = 8.002 BETA ( 2 ) =

.186 MACH = 1.1003

Q

= 600.35

P

= 708.37

RN/L

3.1925

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW .2990 .3540 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.010	-.3460	-.6459	.3253	.6182	.5719	.6164	.5843
.020	.0000	-.3178	.4492	.5240	.5230	.5321	.5088
.040		-.2398	.4645				-.1710
.050	-.0914			.4369	.4263	.4334	.4162
.069							-.0741
.080				.3825			

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 AMES 11-073(0A148) -140A/B/C ORC LEFT WING BOT

(XEBL78)

ALPHA ( 4 ) = 8.002 BETA ( 2 ) = .186

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/B4 .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/C4

.081	.3905						
.086	.0190						
.094							
.150							
.157							
.163	.3739						
.177							
.229							
.246	.2903						
.250							
.274	.3160						
.345							
.390	.3061						
.400							
.402	.2940						
.503							
.550							
.565							
.600							
.637	.1804						
.650							
.670							
.700							
.725							
.750							
.760							
.775							
.798	.2802						
.808							
.834							
.839	.1899						
.850	.3335						
.857							
.862							
.865	.4171						
.879	.1333						
.900							
.905	.0995						
.919							
.950							
.953							
.955							
.965							
.990							

-.6775





**(XEX 78)**

AMES 11-073(OA148) -140A/B/C ORB LEFT WING

ALPHA ( 5 ) =	11.963	BETA ( 1 ) =	-3.838
---------------	--------	--------------	--------

SECTION ( 1 ) LEFT WING BOT SURF	DEPENDENT VARIABLE CP
1	0.0000
2	0.0000
3	0.0000
4	0.0000
5	0.0000
6	0.0000
7	0.0000
8	0.0000
9	0.0000
10	0.0000
11	0.0000
12	0.0000
13	0.0000
14	0.0000
15	0.0000
16	0.0000
17	0.0000
18	0.0000
19	0.0000
20	0.0000
21	0.0000
22	0.0000
23	0.0000
24	0.0000
25	0.0000
26	0.0000
27	0.0000
28	0.0000
29	0.0000
30	0.0000
31	0.0000
32	0.0000
33	0.0000
34	0.0000
35	0.0000
36	0.0000
37	0.0000
38	0.0000
39	0.0000
40	0.0000
41	0.0000
42	0.0000
43	0.0000
44	0.0000
45	0.0000
46	0.0000
47	0.0000
48	0.0000
49	0.0000
50	0.0000
51	0.0000
52	0.0000
53	0.0000
54	0.0000
55	0.0000
56	0.0000
57	0.0000
58	0.0000
59	0.0000
60	0.0000
61	0.0000
62	0.0000
63	0.0000
64	0.0000
65	0.0000
66	0.0000
67	0.0000
68	0.0000
69	0.0000
70	0.0000
71	0.0000
72	0.0000
73	0.0000
74	0.0000
75	0.0000
76	0.0000
77	0.0000
78	0.0000
79	0.0000
80	0.0000
81	0.0000
82	0.0000
83	0.0000
84	0.0000
85	0.0000
86	0.0000
87	0.0000
88	0.0000
89	0.0000
90	0.0000
91	0.0000
92	0.0000
93	0.0000
94	0.0000
95	0.0000
96	0.0000
97	0.0000
98	0.0000
99	0.0000
100	0.0000

2Y/8W	.2930	.3640	.4270	.5340	.6730	.7800	.9870	.9720
-------	-------	-------	-------	-------	-------	-------	-------	-------

EC/X

[illegible]

PARAMETER	VALUE	UNIT
A <sub>2</sub> PA (5)	1.957	
BETA (2)	.194	
MACH	1.0980	
Q	599.15	
P	710.01	PN/L
		3.1917

SECTION 1: LEFT WING BOT SURF

24/84	.2930	.3640	.4270	.5340	.6730	.7800	.8870	.9720
-------	-------	-------	-------	-------	-------	-------	-------	-------

508

-.010	-.5102	-.6593	-.0092	.6790	.6065	.6451	.5984	-.3528
.000	.0000	-.3422	.3802	.6793	.6778	.6655	.6134	
.040		-.2520	.4659					
.070	-.0343			.6048	.6196	.5974	.5619	-.1451
.090				.5481				
.091		.0726	.4931					
.095								
.094	-.0240			.4920	.5073	.5076	.4269	-.0933
.150								
.157								
.153		.4083	.4633					
.177								
.223	.0379							
.246		.3773						
.250				.4364	.4401	.4330	.3550	
.274			.4254					
.345		.4097						.0832
.390								

DATE 10 FEB 75

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 3041

(XEBL78)

ALPHA ( 5 ) = 11.967 BETA ( 2 ) = .194

AMES 11-073(0A148) -140A/B/C ORB LEFT WING BOT

SECTION ( 1 ) LEFT WING BOT SURF

DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.400 .3724 .3897 .2953 .2384 .2905 .1710

.402 .3724 .3897 .2953 .2384 .2905 .1710

.503 .3724 .3897 .2953 .2384 .2905 .1710

.550 .3724 .3897 .2953 .2384 .2905 .1710

.555 .3724 .3897 .2953 .2384 .2905 .1710

.600 .3724 .3897 .2953 .2384 .2905 .1710

.637 .3724 .3897 .2953 .2384 .2905 .1710

.650 .3724 .3897 .2953 .2384 .2905 .1710

.670 .3724 .3897 .2953 .2384 .2905 .1710

.700 .3724 .3897 .2953 .2384 .2905 .1710

.725 .3724 .3897 .2953 .2384 .2905 .1710

.750 .3724 .3897 .2953 .2384 .2905 .1710

.760 .3724 .3897 .2953 .2384 .2905 .1710

.775 .3724 .3897 .2953 .2384 .2905 .1710

.798 .3724 .3897 .2953 .2384 .2905 .1710

.808 .3724 .3897 .2953 .2384 .2905 .1710

.834 .3724 .3897 .2953 .2384 .2905 .1710

.839 .3724 .3897 .2953 .2384 .2905 .1710

.850 .3724 .3897 .2953 .2384 .2905 .1710

.857 .3724 .3897 .2953 .2384 .2905 .1710

.862 .3724 .3897 .2953 .2384 .2905 .1710

.865 .3724 .3897 .2953 .2384 .2905 .1710

.879 .3724 .3897 .2953 .2384 .2905 .1710

.900 .3724 .3897 .2953 .2384 .2905 .1710

.905 .3724 .3897 .2953 .2384 .2905 .1710

.919 .3724 .3897 .2953 .2384 .2905 .1710

.930 .3724 .3897 .2953 .2384 .2905 .1710

.933 .3724 .3897 .2953 .2384 .2905 .1710

.955 .3724 .3897 .2953 .2384 .2905 .1710

.965 .3724 .3897 .2953 .2384 .2905 .1710

1.000 .3724 .3897 .2953 .2384 .2905 .1710

-.1226

ALPHA ( 3 ) = 11.958 BETA ( 3 ) = 4.256 MACH = 1.0980 Q = 599.15 P = 710.01 RN/L = 3.1917

SECTION ( 1 ) LEFT WING BOT SURF

DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.400 .5752 .5848 .5169 .4724

.402 .5752 .5848 .5169 .4724

.503 .5752 .5848 .5169 .4724

.550 .5752 .5848 .5169 .4724

.555 .5752 .5848 .5169 .4724

.600 .5752 .5848 .5169 .4724

.637 .5752 .5848 .5169 .4724

.650 .5752 .5848 .5169 .4724

.670 .5752 .5848 .5169 .4724

.700 .5752 .5848 .5169 .4724

.725 .5752 .5848 .5169 .4724

.750 .5752 .5848 .5169 .4724

.760 .5752 .5848 .5169 .4724

.775 .5752 .5848 .5169 .4724

.798 .5752 .5848 .5169 .4724

.808 .5752 .5848 .5169 .4724

.834 .5752 .5848 .5169 .4724

.839 .5752 .5848 .5169 .4724

.850 .5752 .5848 .5169 .4724

.857 .5752 .5848 .5169 .4724

.862 .5752 .5848 .5169 .4724

.865 .5752 .5848 .5169 .4724

.879 .5752 .5848 .5169 .4724

.900 .5752 .5848 .5169 .4724

.905 .5752 .5848 .5169 .4724

.919 .5752 .5848 .5169 .4724

.930 .5752 .5848 .5169 .4724

.933 .5752 .5848 .5169 .4724

.955 .5752 .5848 .5169 .4724

.965 .5752 .5848 .5169 .4724

1.000 .5752 .5848 .5169 .4724

-.4885

-.2662





DATE 10 FEB 76

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

**PAGE 3043**

AMES 11-073(OA148) -140A/B/C ORB LEFT WING BOT (XEBL79) (05 AUG 75)

## REFERENCE DATA

SREF	=	2690.0000	53. FT.	XMRP	=	1076.5800	IN.	X0
LRUF	=	471.8000	IN.	YMRP	=	0000	IN.	Y0
BREF	=	935.0000	IN.	ZMRP	=	375.0000	IN.	Z0
SCALE	=	.0300						

## PARAMETRIC DATA

ITEM	QTY	UNIT	PRICE	TOTAL
RUDDER	1	EA	10.000	10.000
BOFLAP	1	EA	11.700	11.700
R-ELVN	1	EA	10.000	10.000
SPOERX	1	EA	10.000	10.000
L-NV3	1	EA	10.000	10.000
HACH	1	EA	10.000	10.000

ALPHA ( 1 ) = -4.051      BETA ( 1 ) = -3.840      MACH = .89997      Q = 600.24      P = 1059.8      RW/L = 3.5827

## SECTION : 1 LEFT WING BOT SURF

## DEPENDENT VARIABLE CP

2Y/8W	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
-------	-------	-------	-------	-------	-------	-------	-------	-------

[illegible]







DATE 10 FEB 76

TABULATED PRESSURE DATA - OA148 ( AMES 11-073-1 )

PAGE 3047

AMES 11-073(OA148) -140A/B/C ORB LEFT WING BOT (XEBL79)

ALPHA ( 2 ) = .045 BETA ( 1 ) = -3.859 MACH = .89957 Q = 599.75 P = .058.8 RN/L = 3.5771

SECTION ( 1 ) LEFT WING BOT SURF

DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CM

.010	.0928	.1128	-.6354	-.8248	-.7506	-.6198	
.020	.0776	.0009	-.6156	-.7587	-.7407	-.8832	-.2934
.040	.0883	-.1641	-.5164	-.5766	-.6754	-.7454	-.3414
.050	.0099						
.069			-.3536				
.080		-.1962					
.081							
.086	.1016						
.094	-.0034						
.150			-.2173	-.2190	-.2580	-.2693	-.2068
.157							
.163	.0254						
.177	-.1731						
.229	.0329						
.246	-.1253						
.250			-.1517	-.2010	-.2318	-.2708	
.274	-.1261						
.345							-.2500
.370	-.1046						
.400			-.1227	-.1339		-.1847	
.403	-.0829						-.1755
.503			-.1893	-.1855			
.550	-.8354						
.565							
.600						-.0869	
.637	-.1877						
.650					-.0505		
.670							-.1167
.700			-.0124	-.0416			
.725					.2170	.0891	
.750		.0271					
.760		.2777		.1538			
.775							
.798	.0296	.1380					
.808							
.834	-.0424						
.839							
.850							
.857							
.852		-.1487	-.1472	-.1769	-.2047		-.3746
.865	.1487						
.879	-.2052						
.900	-.2653						
.905		-.3037					-.3754
.919	-.3796	-.3477					

DATE 10 FEB 76

## TABULATED PRESSURE DATA - 0A148 ( ASES 11-073-1 )

PAGE 3048

(XEBL79)

ASES 11-073(0A148) -140A/B/C ORB LEFT WING BOT

ALPHA ( 2 ) = .045 BETA ( 1 ) = -3.859

SECTION ( 1 ) LEFT WING BOT SURF

DEPENDENT VARIABLE CP

2Y/BW .2990 .3540 .4270 .5340 .6730 .7800 .8870 .9720

X/C4

.010 .1155 .1882 -.4678 -.6612 -.7011 -.6170

.020 .1143 .1027 -.4705 -.5874 -.6270 -.7739

.040 .1288 -.0553

.050 .0220

.069 .069

.080 .081

.085 .086

.094 .094

.153 .153

.157 .157

.163 .163

.177 .177

.229 .229

.245 .245

.250 .250

.274 .274

.345 .345

.390 .390

.400 .400

.432 .432

.503 .503

.550 .550

.565 .565

.600 .600

.637 .637

.650 .650

.670 .670

.700 .700

.725 .725

.752 .752

.760 .760

.2622

-.2644

-.2399

-.0347

-.0150

.0501

.192

MACH = .89957

0

= 599.75

?

= 1058.8

RV/L

= 3.1771

SECTION ( 1 ) LEFT WING BOT SURF

DEPENDENT VARIABLE CP

2Y/BW .2990 .3540 .4270 .5340 .6730 .7800 .8870 .9720

X/C4

.010 .0352 .1155 .1882 -.4678 -.6612 -.7011 -.6170

.020 .0000 .1143 .1027 -.4705 -.5874 -.6270 -.7739

.040 .1288 -.0553

.050 .0220

.069 .069

.080 .081

.085 .086

.094 .094

.153 .153

.157 .157

.163 .163

.177 .177

.229 .229

.245 .245

.250 .250

.274 .274

.345 .345

.390 .390

.400 .400

.432 .432

.503 .503

.550 .550

.565 .565

.600 .600

.637 .637

.650 .650

.670 .670

.700 .700

.725 .725

.752 .752

.760 .760

.1252

.1359

.0777

.1403

.0890

.0871

.1283

.1471

.2003

.2632

.2645

.1582

.0794

.0581

.1306

.0456

.0822

.0240

DATE 10 FEB 76

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 3049

(XEBL79)

AMES 11-073(0A148) -140A/B/C ORB LEFT WING BOT

ALPHA ( 2 ) = .042 BETA ( 2 ) = .192

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.775			.2843	.1514			
.798	.0171						
.808		.1396					
.834							
.839	-.0611						
.850		.0410					
.857			-.1526				
.862				-.1510	-.1892	-.2096	
.865							-.4514
.879	.1286						
.900	-.2430	-.2008		-.3408			-.3905
.905		-.3839					
.919							
.950				-.4545	-.3359	-.3753	
.953							
.955		-.4420					
.965	-.4089						
1.000			-.1336	-.0764			-.0108

ALPHA ( 2 ) = .032 BETA ( 3 ) = 4.260 MACH = .89957 Q = 599.75 P = 1059.8 RV/L = 3.5771

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.010							
.020	-.0052	.0845	.2333	-.3079	-.5129	-.5878	-.5414
.040	.0000	.1078	.1663	-.3639	-.4320	-.4952	-.6264
.050		.1258	.0213				
.056	.0171			-.2495	-.3668	-.4134	-.4801
.069							
.080				-.2166			
.081		.1491					
.086							
.094	.0167						
.150				-.1551	-.1693	-.2078	-.3091
.157							
.163		.1135					
.177			-.1013				
.229	.0533						
.246		-.0566					
.254				-.1286	-.1683	-.2033	-.2565
.274			-.0933				
.345							
.390		-.0716					-.2365



DATE 10 FEB 76

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 3050

(XEBL79)

ALPHA ( 2 ) = .032 BETA ( 3 ) = 4.260 AMES 11-073(0A148) -140A/B/C ORB LEFT WING BOT

SECTION ( LEFT WING BOT SURF	DEPENDENT VARIABLE CP	
27/004	.2950 .3640 .4270 .5340 .6730 .7800 .8870 .9720	
X/CM		
.400		
.402		
.503		
.560		
.565		
.600		
.637		
.650		
.670		
.700		
.725		
.750		
.760		
.775		
.799		
.808		
.834		
.839		
.850		
.857		
.862		
.865		
.879		
.900		
.909		
.950		
.953		
.975		
.985		
1.000		

ALPHA ( 3 ) = 4.023 BETA ( 1 ) = -3.861 MACH = .90070 Q = 600.44 P = 1057.3 RN/L = 3.5793		
SECTION ( LEFT WING BOT SURF	DEPENDENT VARIABLE CP	
27/004	.2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720	
X/CM		
.010		
.020		
.030		
.0637		
.068		
.082		

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

(XEBL79)

AMES 11-073(0A148) -140A/B/C ORB LEFT WING BOT

ALPHA ( 3 ) = 4.023 BETA ( 1 ) = -3.861

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2V/SA	.2990	.3540	.4270	.5340	.6730	.7800	.8870	.9720
X/CW	.081	.2339	.0739					
.086	.0660			.0064	.0040	.0009	-.0541	-.1452
.094								
.150								
.157								
.163		.2068						
.177			.0330					
.229	.1066							
.246		.0521		.0217	-.0072	-.0274	-.0759	
.250			.0318					-.1421
.274								
.345		.0409		-.0040	-.0076		-.0716	
.390			.0306					-.1219
.400								
.422				-.0834	-.0786			
.503			-.9044					
.565								
.600								
.637	-.0880							
.650					-.0423			-.0501
.670								
.700					-.0007			
.725				.0323		.2719	.1314	
.750			.0672					
.760				.3613	.1968			
.775		.0674						
.798			.1736					
.834	-.0145							
.839		.0698						
.852								
.857								
.882								
.885	.1919							
.979		-.1720						
.900	-.2305							
.905			-.3321					
.919		-.3518						
.950								
.953			-.2229					
.955								
.965	-.2195							
.973			.0073			.0306		-.4404
.977								
.980								

-.3363

-.3490

-.3723



TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

(XEBL79)

AMES 11-073(0A148) -140A/B/C ORB LEFT WING BOT

ALPHA ( 3 ) = 4.017 BETA ( 2 ) = .197

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/8W .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW .950 .953 .955 .955 1.000

-4.290 -4.3017 -4.3933  
-4.4014  
-4.4084  
-4.4059  
-1.055  
-1.0800  
-1.3916

RN/L = 3.5793

P = 1057.3

Q = 600.44

MACH = .90070

ALPHA ( 3 ) = 4.017 BETA ( 3 ) = 4.251 MACH = .90070

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/8W .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW .010 .020 .040 .050 .069 .080 .091 .096 .094 .150 .157 .163 .177 .229 .246 .250 .274 .345 .390 .400 .402 .503 .503 .565 .565 .637 .640 .670 .700 .700 .700

-2.083 -1.1544 .3022 .2524 .1554 .2160 .2053  
.0000 -.0067 .3239 .1378 .1069 .1063 .0852  
-.0278 .0468 .2351 .0940 .0399 .0223 .0123  
.0578  
.1325  
.0403 .0275 .0075 -.0621  
.0716  
.0412  
-.0156 -.0251  
-.0935 -.1091  
-.9439  
-.1037  
-.0636  
-.1361  
.0031  
.2341 .0624  
.0436

-.2277

-.2460

-.1938

-.1028

-.1361

-.0303

-.0624

-.0436







DATE 10 FEB 79

TABULATED PRESSURE DATA - CA148 (AMES 11-073-1)

PAGE 3057

AMES 11-073(0A148) -140A/B/C ORB LEFT WING BOT (XEBL79)

ALPHA = 7.956 BETA (3) = 4.250 MACH = .90017 Q = 600.17 P = 1058.1 RWL = 3.5825

SECTION / INLET WING BOT SURF

DEPENDENT VARIABLE CP

SECTION / INLET WING BOT SURF	DEPENDENT VARIABLE CP	Q	P	RWL
2164	.5340 .6730 .7800 .8970 .9720			
X/C				
.010	.0990 .4539 .3984 .4052 .3563			
.020	.0000 -.1696 .2637 .3823 .3590 .3565 .3095			
.040	-.1206 -.0941 .3207 .2943 .2628 .2551 .2285			
.060	.2368			
.080	.2582			
.100	.1424			
.120	-.0296			
.140	.1779 .1888 .1716 .0922			
.160	.2792			
.180	.1950			
.200	.1707			
.220	.0913			
.240	.1375 .1243 .1076 .0213			
.260	.1518			
.280	.1485			
.300	.0732 .0781			
.320	.1026			
.340	-.0038			
.360	-.0038			
.380	-.6833			
.400	-.0136			
.420	.0010			
.440	.0093			
.460	.0465			
.480	.0767			
.500	.3411 .1703			
.520	.0761			
.540	.1750			
.560	-.0096			
.580	.0731			
.600	-.1034			
.620	-.1116			
.640	-.1777			
.660	-.1575			
.680	-.4484			
.700	.1864			
.720	-.1322			
.740	-.2957			
.760	-.3006			
.780	-.3004			
.800	-.3252			



DATE 10 FEB 76

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 305B

(XCEL79)

AMES 11-073(0A148) -140A/B/C ORB LEFT WING BOT

ALPHA ( 4 ) = 7.925 BETA ( 3 ) = 4.250

SECTION ( 1 ) LEFT WING BOT SURF	DEPENDENT VARIABLE CP			
24/8W	.2990	.3640	.4270	.5340 .6730 .7800 .8870 .9720

X/CW				
.950				
.953				
.955				
.958				
1.000				

SECTION ( 5 )	BETA ( 1 )	MACH	Q	P	RNL
11.959	-3.847	.89890	0	599.14	1059.2

RNL = 3.5769

SECTION ( 1 ) LEFT WING BOT SURF	DEPENDENT VARIABLE CP			
24/8W	.2990	.3640	.4270	.5340 .6730 .7800 .8870 .9720

X/CW				
.910				
.920				
.940				
.970				
.980				
.985				
.990				
.995				
1.000				

X/CW				
.910				
.920				
.940				
.970				
.980				
.985				
.990				
.995				
1.000				

X/CW				
.910				
.920				
.940				
.970				
.980				
.985				
.990				
.995				
1.000				

X/CW				
.910				
.920				
.940				
.970				
.980				
.985				
.990				
.995				
1.000				

X/CW				
.910				
.920				
.940				
.970				
.980				
.985				
.990				
.995				
1.000				

X/CW				
.910				
.920				
.940				
.970				
.980				
.985				
.990				
.995				
1.000				

X/CW				
.910				
.920				
.940				
.970				
.980				
.985				
.990				
.995				
1.000				

X/CW				
.910				
.920				
.940				
.970				
.980				
.985				
.990				
.995				
1.000				

X/CW				
.910				
.920				
.940				
.970				
.980				
.985				
.990				
.995				
1.000				

(XEBL 79)

DATE 10 FEB 76 REGULATED PRESSURE DATA - 04148 ( AMES 11-073-1 )  
 AMES 11-073(04148) -140A/B/C ORB LEFT WING BOT

ALPHA ( 5 ) = 11.959 BETA ( 1 ) = -3.847

SECTION : 1 LEFT WING BOT SURF DEPENDENT VARIABLE CP

2+ 24 .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW	Y/CW	CP
.775	.4272	.2399
.738	.1331	
.698	.2446	
.638	.0539	
.633	.1218	
.633		
.637		
.632		
.635		
.679		
.920		
.923		
.919		
.950		
.953		
.955		
.925		
.920		

ALPHA ( 5 ) = 11.976 BETA ( 2 ) = .196 MACH = .89890 Q = 599.14 P = 1059.2 RN/L = 3.5769

SECTION : 1 LEFT WING BOT SURF DEPENDENT VARIABLE CP

27/8W	CP
.2990	.3640 .4270 .5340 .6730 .7800 .8870 .9720
.7019	.4087
.620	.2129
.640	.1137
.640	.1209
.669	
.681	
.686	
.690	
.690	
.697	
.693	
.677	
.629	
.626	
.630	
.645	
.630	

DATE 10 FEB 76

TABULATED PRESSURE DATA - 0A142 ( AIES 11-073- )

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(XEBL79)

AMES 11-073(0A148) -14.5A/27C ORB LEFT WING BOT

ALPHA ( 5 ) = 11.976 BETA ( 2 ) = 195

SECTION ( 1 ) LEFT WING BOT SURF

DEPEN VARIABLE CP

2Y/BA .2990 .3640 .4270 .5340 .6700 .8870 .9720

X/CM

.400 .1938 .2213 .1053

.402 .0974 .0974 .1305

.503 .5808 .5808 .0426

.550 .0832 .0832 .770

.600 .1122 .1122 .1598

.650 .1284 .1284 .2216

.700 .2382 .2382 .0676

.725 .1262 .1262 .2964

.750 .0437 .0437 .1598

.775 .1231 .1231 .2216

.798 .0561 .0561 .1598

.809 .2501 .2501 .2257

.834 .1377 .1377 .2257

.859 .2826 .2826 .2537

.850 .3489 .3489 .3408

.857 .3805 .3805 .4935

.862 .1532 .1532 .6268

.865 .0921 .0921 .2257

.879 .2587 .2587 .2257

.905 .2826 .2826 .2537

.919 .3489 .3489 .3408

.950 .3805 .3805 .4935

.953 .1532 .1532 .6268

.955 .0921 .0921 .2257

1.003 .2587 .2587 .2257

ALPHA ( 5 ) = 11.955 BETA ( 3 ) = 4.265 MACH = .8890 Q = 589.14 P = 1059.2 RN/L = 3.5769

SECTION ( 1 ) LEFT WING BOT SURF

DEPENDENT VARIABLE CP

2Y/BA .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CM

.010 .1867 .1867 .2168 .4380 .4290 .3555 .2975

.020 .0000 .0000 .0962 .4673 .4538 .4291 .3610

.040 .2144 .2144 .3248 .4162 .4149 .3840 .3408

.050 .2063 .2063 .3631 .3631 .3631 .3631 .3631

.069 .080 .080 .3631 .3631 .3631 .3631 .3631

.080 .080 .080 .3631 .3631 .3631 .3631 .3631

C-7



DATE 10 FEB 76

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C ORB LEFT WING BOT

(XEBL80) ( 05 AUG 75 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.6800 IN. XO  
 LREF = 474.8000 IN. YMRP = .0000 IN. YO  
 BREF = 936.0000 IN. ZMRP = 375.0000 IN. ZO  
 SCALE = .0300

## PARAMETRIC DATA

RUDDER = -10.000 SPOBRK = .000  
 BDFLAP = -11.700 L-ELVN = 10.000  
 R-ELVN = -10.000 MACH = .600

ALPHA ( 1 ) = -4.078 BETA ( 1 ) = -7.658 MACH = .59728 0 = 595.86 P = 2386.0 RN/L = 4.8298

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CN								
.010								
.020								
.040								
.050								
.069								
.081								
.086								
.094								
.150								
.157								
.163								
.177								
.229								
.246								
.250								
.274								
.345								
.392								
.400								
.402								
.503								
.550								
.575								
.600								
.637								
.650								
.670								
.700								
.725								
.750								
.760								
.775								
.793								
.829								
.833								
.850								

-.3062 -1.6537 -1.0711 -2.1428 -2.0982 -1.8055 -1.9554  
 -.0000 -.5776 -1.1473 -1.9848 -2.0199 -1.4842 -1.8224  
 -.5233 -.9707

-.2548 -.9423 -.9709 -1.1010 -1.0191  
 -.7085  
 -.6957

-.2271 -.3449  
 -.3821 -.3815  
 -.3757  
 -.2697  
 -.2392  
 -.1913 -.1894  
 -.1680 -.1544  
 -.2094  
 -.1969  
 -.0495  
 -.0812  
 -.0409  
 -.0353  
 -.0149  
 -.1072  
 -.0562  
 -.1043 -.0950 -.1045

-.2758

-.2936 -.3176 -.3331 -.3080  
 -.2386  
 -.2114  
 -.1115  
 -.0752  
 -.0027

-.1367



DATE 10 FEB 76 TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

(XEBL80)

AMES 11-073(0A148) -140A/B/C ORB LEFT WING BOT

ALPHA ( 1 ) = -4.062 BETA ( 2 ) = -3.836

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/84 .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CH

.637	-.1887							
.650								
.670								
.700								
.725								
.750								
.760								
.775								
.798								
.808								
.834								
.839								
.850								
.857								
.862								
.865								
.879								
.900								
.905								
.919								
.950								
.953								
.955								
.965								
1.000								

ALPHA ( 1 ) = -4.061 BETA ( 3 ) = .183 MACH = .59728 Q = 2386.0 RN/L = 4.8298

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/84 .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CH

.010								
.020								
.040								
.050								
.069								
.080								
.081								
.096								
.054								
.150								
.157								
.163								

DATE 10 FEB 76

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

(XEBL80)

ALPHA ( 1 ) = -4.061 BETA ( 3 ) = .183

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CH

.177	-.3053						
.229	-.0846	-.2767					
.246			-.2499	-.2858	-.2912	-.2716	
.250							
.274		-.2291					
.345							-.1822
.390	-.2025						
.400			-.1741	-.1761		-.1657	
.402		-.1659					-.1711
.503			-.1603	-.1473			
.550		-.1723				-.0925	
.565							
.600							
.637	-.1866			-.0645			-.1134
.650							
.670				-.0727			
.700			-.0461		.1007	.0138	
.725							
.750		-.0292					
.760			.1440	.0610			
.775							
.798		.0307					
.808	-.0945						
.834							
.839							
.850			-.1132	-.1242	-.1128		
.857		-.1282					-.1311
.862							
.865	.0213						
.879			-.1487			-.1076	
.900	-.1958	-.1773					
.905							
.919		-.1912					
.950			-.0953	-.0746	-.0765		
.953		-.1200					
.955							
.955							
.955	-.1706						
.955		.0076		.0049		.0366	
1.000							



DATE 10 FEB 76

TABULATED PRESSURE DATA - 0A148 (AVES 11-073-1)

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(XEBL80)

P = 2385.0 RN/L = 4.8298

ALPHA (1) = -3.963 BETA (4) = 4.258 MACH = .59728 Q = 595.86 ORB LEFT WING BOT

SECTION (1) LEFT WING BOT SURF

DEPENDENT VARIABLE CP

2Y/84 .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/C4

.010	-.0535	-.1026	-.3550	-1.4081	-1.5242	-1.8353	-1.6002	
.020	.0000	-.0902	-.4060	-1.1280	-1.2091	-1.2734	-1.4466	-.4785
.040		-.0752	-.4284					
.050	-.0667			-.6507	-.7081	-.7665	-.7705	-.3547
.069								
.080								
.081			-.3491					
.086								
.094	-.0632							
.150				-.3216	-.3463	-.3561	-.3521	
.157								
.163								
.177								
.229								
.246								
.250								
.274								
.345								
.390								
.400								
.402								
.503								
.550								
.565								
.600								
.637								
.650								
.670								
.700								
.724								
.750								
.760								
.775								
.798								
.808								
.834								
.839								
.850								
.857								
.862								
.865								
.879								
.900								
.905								
.919								



DATE 10 FEB 76 TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

(XEBL80)

AMES 11-073(0A148) -140A/B/C ORB LEFT WING BOT

ALPHA ( 1 ) = -3.963 BETA ( 4 ) = 4.258

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BL .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CM

.950 -.1025 -.0779 -.0834

.953 -.1163

.955 -.1562

.965 -.1669

1.000

.0034 .0142 .0178

ALPHA ( 1 ) = -3.995 BETA ( 5 ) = 8.327 MACH = .59728 Q = 595.86 P = 2386.0 RN/L = 4.8298

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BL .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CM

.010 -.0304 .0018 -.1332 -1.0333 -1.2051 -1.4707 -1.3534

.020 .0000 .0004 -.1901 -.8565 -.9303 -1.0393 -1.2270

.040 .0101 -.2553

.050 -.0403

.059 -.5010 -.5914 -.6645 -.6832

.080 -.3973

.081 -.2574

.085 .0058

.094 -.0393

.150 -.2668 -.2970 -.3074 -.3150

.157 -.0606

.163 -.2114

.177 -.0242

.229 -.1762

.246 -.1945 -.2237 -.2290 -.2229

.250 -.1738

.274 -.1558

.345 -.1488 -.1405

.390 -.1412

.400 -.1400 -.1230

.503 -.2286

.550 -.1682

.565 -.0523

.600 -.0704

.637 -.0597

.650 -.0915

.670 .1112

.725 .0236

.752

.753





DATE 10 FEB 76

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## TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

(XEBL80)

AMES 11-073(0A148) -140A/B/C ORB LEFT WING BOT

ALPHA ( 2 ) = -.008 BETA ( 2 ) = -3.854

SECTION ( 1 ) LEFT WING BOT SURF	DEPENDENT VARIABLE CP				
2Y/8W	.2990	.3640	.4270	.5340	.6730 .7800 .8870 .9720
X/CW					
.081			-.2307		
.086		.0172			
.094	-.0401				
.150				-.1989	-.1928
.157				-.1777	-.1824
.163		-.0504			
.177			-.1676		
.229	-.0287				
.246		-.1518			
.250				-.1288	-.1452
.274			-.1220	-.1487	-.1404
.345					
.390		-.1074			
.400				-.0953	-.0888
.402			-.0863		-.0840
.503					
.550			-.2319	-.1110	-.0949
.565					
.600					-.0536
.637		-.1351			
.650				-.0326	
.670					
.700					-.0889
.725				-.0473	
.750					
.760			-.0050	.1875	.0955
.775					
.799		-.0042			
.808			.0624		
.834					
.839	-.0705	-.0380		-.0951	-.1075
.850			-.1024	-.1019	
.857					
.852					
.855					-.1772
.879	.0577	-.1457			
.900	-.1860			-.1438	-.1126
.905			-.1704		
.919		-.1830			
.950				-.0911	-.0633
.953			-.1087	-.0695	
.955		-.1492			
.955	-.1647				
.955			.0154	.0028	.0347
.960					

DATE 10 FEB 76

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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(XEBL80)

ALPHA ( 2 ) = .029 BETA ( 3 ) = .176 MACH = .59646 Q = 594.33 P = 2386.5 RN/L = 4.8222

AMES 11-073(0A148) -140A/B/C ORB LEFT WING BOT

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/64 .2930 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/C4

.010	.0002	.0536	.0893	-.4991	-.5759	-.5147	-.4137
.020	.0000	.0419	-.0118	-.5056	-.4742	-.4739	-.4932
.040		.0569	-.1407				-.1380
.050	-.0107			-.3224	-.3445	-.3627	-.3530
.069							-.1371
.080				-.2672			
.081			-.1721				
.065		.0562					
.094	-.0236			-.1754	-.1690	-.1672	-.1795
.150							-.1553
.157							
.163		-.0181					
.177			-.1369				
.229	-.0045						
.245		-.1283		-.1201	-.1353	-.1343	-.1383
.250			-.1118				
.274							
.345		-.1004		-.0955	-.0870		-.0880
.390			-.0841				
.400				-.1065	-.0913		-.1207
.402			-.2119				
.503							
.550							
.555							
.600							
.637		-.1375				-.0557	
.650						-.0341	-.1068
.670							
.700				-.0173	-.0463		
.725							
.750			-.0039		.1428	.0280	
.775				.1911	.0839		
.798		-.0077					
.808		.0609					
.834	-.0718						
.839		-.0333		-.0982	-.1177	-.1044	
.850			-.1099				
.857							
.852							-.1864
.855	.0557						
.873		-.1417					
.900	-.1835			-.1512		-.1162	
.905			-.1773				
.919		-.1941					

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 3072

(XEBL80)

AMES 11-073(0A148) -140A/R/C ORB LEFT WING BOT

ALPHA ( 2 ) = .029 BETA ( 3 ) = .176

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BA .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CM

.950

.953

.955

.957

1.000

-.1024 -.0838 -.0828

-.1220

-.1582

-.1637

1.000

.0017

.0048

.0322

ALPHA ( 2 ) = .052 BETA ( 4 ) = .4239 MACH = .59646 Q = 594.33 P = 2366.5 RNL = .8222

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BA .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CM

.010

.020

.030

.040

.050

.069

.080

.081

.085

.094

.150

.157

.163

.177

.229

.246

.250

.274

.345

.390

.400

.402

.503

.550

.565

.600

.637

.650

.670

.700

.745

.750

.760

-.0279 .0388 .1481 -.3581 -.4441 -.3730 -.2738

.0000 .0786 -.0786 -.3785 -.3592 -.3819 -.3708

.0042 -.0570

-.0201

-.2496 -.2713 -.2780 -.2696

-.2104

-.1123

.0804

.0226

-.1463 -.1420 -.1371 -.1580

-.1097

-.0016

-.0978

-.1005

-.1081 -.1178 -.1251 -.1259

-.0785

-.0910 -.0749

-.0729

-.0997 -.0909

-.2350

-.1271

-.0986

-.0837

-.1284

-.0591

-.0323

-.1265

-.0458

-.0182

.1364 .0258

-.0029

DATE 10 FEB 76

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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(XEBL80)

ALPHA ( 2 ) = .052 BETA ( 4 ) = 4.239  
AMES 11-073(0A148) -140A/B/C ORB LEFT WING BOT

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/84 .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CH

.75  
.798  
.808  
.834  
.839  
.850  
.857  
.862  
.865  
.879  
.900  
.905  
.919  
.950  
.953  
.955  
.965  
1.000

.1981 .0778

.0652

-.0675

-.0351

-.1078

-.1004 -.1249 -.1072

.0395

-.1311

-.1612

-.1755

-.1187

-.1520

-.0053

.0041

.0265

-.1532

-.1676

-.1061 -.0850 -.0888

-.1203

-.1898

ALPHA ( 2 ) = .006 BETA ( 5 ) = 8.284 MACH = .594.33 Q = 2386.5 RN/L = 4.8222

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/84 .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CH

.010  
.020  
.040  
.050  
.069  
.080  
.081  
.086  
.094  
.150  
.157  
.163  
.177  
.229  
.246  
.250  
.274  
.345  
.390

-.1136

-.0401

.0033

.0308

-.0522

-.0559

.0808

-.0387

.0568

-.0791

-.0107

-.0712

-.0937

-.0791

-.0695

-.1879

-.1645

-.1730

-.2359

-.2315

-.2593

-.2841

-.2750

-.2139

-.2841

-.2750

-.2139

-.1219

-.1209



DATE 10 FEB 76

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

(XEBL80)

AMES 11-073(0A148) -140A/B/C ORB LEFT WING BOT

ALPHA ( 2 ) = .006 BETA ( 5 ) = 8.284

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CH

.400 .402 .503 .550 .565 .600 .637 .650 .670 .700 .725 .750 .760 .775 .798 .808 .834 .839 .850 .857 .865 .879 .900 .905 .919 .950 .953 .955 .965 .965 1.000

-.0732 -.0865 -.0754 -.0848 -.1484

-.2705 -.0986 -.0815 -.0588

-.1270 -.0320 -.1466

-.0218 -.0402 .1247 .0258

-.0028 .1926 .0678

-.0090 .0579

-.0640 -.0331 -.1025 -.0960 -.1247 -.1017 -.2017

.0463 .1253 .1438 .1625 .1219

-.1473 .1675 .1088 .0869 .0918

-.1215

-.1489

-.0225 .0021 .0299

ALPHA ( 3 ) = 3.903 BETA ( 1 ) = -7.902 MACH = .59628 0 = 593.97 P = 2386.5 RN/L = 4.8207

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CH

.010 .020 .040 .050 .069 .080

.0774 .1402 .3229 .0210 .0504 .2179 .2800 .0022

.0900 .1402 .2312 .0868 .0223 .0618 .1263

.0559 .1557 .0415 -.0693 -.0424 .0009 .0464 -.0123

.069 .069 .069 .069 .069 .069 .069 .069

.069 .069 .069 .069 .069 .069 .069 .069

.069 .069 .069 .069 .069 .069 .069 .069

.069 .069 .069 .069 .069 .069 .069 .069

.069 .069 .069 .069 .069 .069 .069 .069

.069 .069 .069 .069 .069 .069 .069 .069

.069 .069 .069 .069 .069 .069 .069 .069

.069 .069 .069 .069 .069 .069 .069 .069

.069 .069 .069 .069 .069 .069 .069 .069

.069 .069 .069 .069 .069 .069 .069 .069

.069 .069 .069 .069 .069 .069 .069 .069

.069 .069 .069 .069 .069 .069 .069 .069

DATE 10 FEB 76

TABULATED PRESSURE DATA - 0A148 ( AMES 11-07371 )

PAGE 3075

(XEBL80)

ALPHA ( 3 ) = 3.903 BETA ( 1 ) = -7.902

AMES 11-073(0A148) -140A/B/C ORB LEFT WING BOT

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/B4 .2990 .3540 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.081	-.0233						
.086	.1579						
.094	.0434						
.150		-.0269	-.0012	.0239	.0160		
.157							-.0979
.163	.0856						
.177		-.0152					
.229	.0476						
.246	-.0255						
.250		-.0031	-.0063	-.0043	-.0022		
.274		-.0134					-.0223
.345	-.0078						
.390		-.0097	.0084		.0045		
.400	.0006						-.0585
.402							
.503		-.0435	-.0260				
.550	-.2879						
.565							
.600							
.637	-.0803				-.0062		
.650				.0228			-.0655
.670							
.700							
.725		.0229	-.0056				
.730				.1836	.0764		
.760		.0238	.2290	.1312			
.775	.0272						
.798		.0890					
.808							
.834	-.0420						
.839	-.0117						
.851		-.0658	-.0780	-.0767			
.857		-.0763					
.862							-.2117
.865	.0880						
.879	-.1233						
.930	-.1651	-.1264			-.1160		
.935		-.1463					
.919	-.1639						
.950		-.0790	-.0471	-.0654			
.953	-.0897						
.955	-.1348						
.965	-.1505						
1.000	.0264	.0059			-.0335		

DATE 10 FEB 76

## TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 3076

ALPHA ( 3 ) = 3.907 BETA ( 2 ) = -3.866 MACH = .59628 0 = 593.97 P = 2386.5 RN/L = 4.8207  
 (XEBL80)

AMES 11-073(0A148) -140A/B/C ORB LEFT WING BOT

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2900	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	.0074	.0553	.3235	.1014	.1102	.2476	.2892	
.020	.0000	.1022	.2678	-.0143	.0598	.0967	.1446	-.1090
.040		.1335	.1029					
.050	.0395			-.0238	-.0055	.0371	.0517	-.0897
.069								
.080				-.0290				
.081		.1599	.0143					
.085	.0367							
.094				-.0096	.0166	.0310	.0109	-.1232
.150								
.157								
.163		.1147						
.177			-.0015					
.229	.0539							
.246				-.0002	.0025	.0002	-.0019	
.250								
.274			-.0049					-.0670
.345								
.390				-.0105	.0067		-.0021	
.400			-.0015					-.0895
.402								
.503				-.0397	-.0308			
.550			-.2505					
.565								
.600								
.637								
.650	-.0797					.0162		
.670								-.0937
.700								
.725				.0270	-.0048			
.750						.1767	.2638	
.760			.0316					
.775				.2323	.1210			
.798		.0288						
.808			.0883					
.834	-.0407							
.839		-.0094						
.850				-.0767	-.0937	-.0864		
.857								
.862								-.2275
.865	.0914							
.879		-.1232						
.900	-.1652			-.1314				-.1206
.905								
.919			-.1671					

DATE 10 FEB 76 TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

(XEBL80)

AMES 11-073(0A148) -140A/B/C ORB LEFT WING BOT

ALPHA ( 3 ) = 3.907 BETA ( 2 ) = -3.866

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BL .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW  
 .950  
 .953  
 .955  
 .965  
 1.000  
 -.0887 -.0662 -.0791  
 -.1422  
 .0058  
 -.0010 -.0151

ALPHA ( 3 ) = 3.984 BETA ( 3 ) = .180 MACH = .59628 Q = 593.97 P = 2386.5 RN/L = 4.8207

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BL .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW  
 .010  
 .020  
 .040  
 .050  
 .063  
 .080  
 .081  
 .096  
 .094  
 .150  
 .157  
 .163  
 .177  
 .229  
 .246  
 .250  
 .274  
 .345  
 .390  
 .400  
 .402  
 .503  
 .552  
 .565  
 .610  
 .631  
 .650  
 .670  
 .735  
 .750  
 .760  
 -.0939 -.0676 .2936 .1687 .1525 .2605 .2772  
 .0000 .0316 .2827 .0523 .0970 .1192 .1550 -.2286  
 .0005 .0735 .1526 .0189 .0197 .0428 .0553 -.1873  
 -.0053  
 .0551  
 .1485  
 .0162  
 .1356 .0128  
 .0027 .0029  
 .0005  
 -.0021  
 -.0071 .0059 -.0172  
 -.0471 -.0317  
 -.2382  
 -.0935  
 .0190  
 .0258

Q = 593.97 P = 2386.5 RN/L = 4.8207

Q = 593.97 P = 2386.5 RN/L = 4.8207

Q = 593.97 P = 2386.5 RN/L = 4.8207

Q = 593.97 P = 2386.5 RN/L = 4.8207

Q = 593.97 P = 2386.5 RN/L = 4.8207

DATE 10 FEB 76

## TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 3078

(XEBL80)

AMES 11-073(0A148) -140A/B/C ORB LEFT WING BOT

ALPHA ( 3 ) = 3.984 BETA ( 3 ) = .180

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.775	.2332	.1109	
.798	.0271	.0918	
.808			
.834	-.0384		
.839	-.0088		
.850			
.857	-.0868	-.0789	-.0992
.862			-.0864
.865			
.879	.0835		-.2548
.900	-.1195		
.905		-.1394	-.1257
.919	-.1672	-.1634	
.950			
.953	-.1194	-.1067	-.0819
.955	-.1444		-.0864
.955			
1.000	-.1518	-.0220	-.0005
			-.0068

ALPHA ( 3 ) = 3.988 BETA ( 4 ) = 4.226 MACH = .59628 Q = 593.97 P = 2386.5 RN/L = 4.8207

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.010	-.2244	-.2359	.2194	.2047	.1721	.2609	.2611
.020	.0000	-.0767	.2513	.0892	.1252	.1458	.1598
.040	-.0200	.1651					-.3920
.050	-.0594			.0489	.0392	.0501	.0719
.069							-.3096
.080			.0682	.0154			
.081							
.086	.1113						
.094	-.0260						
.150				.0010	.0248	.0250	-.0035
.157							-.2092
.163		.1363					
.177		.0195					
.229	.0252	.0177					
.246							
.250							
.274							
.345				-.0001	.0020	-.0042	-.0264
.390	.0059	.0062					-.1683

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ORIGINAL PAGE IS POOR

DATE 10 FEB 76 TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

(XEBL80)

AMES 11-07310A148) -140A/B/C ORB LEFT WING BOT

ALPHA ( 3 ) = 3.988 BETA ( 4 ) = 4.226

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BL .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CL

.400	-.0164	-.0008	-.0337				
.402	-.0016						
.503							
.553	-.0472	-.0337					-.1943
.555	-.2511						
.600							
.637							
.653	-.0792						
.670							
.703							
.725							
.750							
.760							
.775							
.799	.0178	.2303	.0911				
.803							
.834							
.839	-.0094						
.850							
.857							
.852							
.865							
.879							
.900							
.905							
.919							
.950							
.953							
.955							
.955							
1.000							

ALPHA ( 3 ) = 4.029 BETA ( 5 ) = 6.276 MACH = .59628 Q = 593.97 P = 2366.5 RV/L = 4.8207

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BL .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CL

.010	-.3749	-.3608	.0894	.2428	.1991	.2432	.2277
.070	.0000	-.1931	.1782	.1533	.1482	.1556	.1515
.070		-.1336	.1644				
.050	-.1355			.0854	.0848	.0676	.0691
.039							
.080				.0469			

DATE 10 FEB 76

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 3080

ALPHA ( 3 ) = 4.029 BETA ( 5 ) = 8.276  
 SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP  
 AMES 11-073(0A148) -140A/B/C ORB LEFT WING BOT

(XEBL80)

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CH								
.081			.0935					
.086		.0515						
.094	-.0804			.0172	.0287	.0356	-.0232	-.2677
.150			.1278					
.157								
.163								
.177			.0386					
.229	-.0038							
.246		.0200						
.250				.0123	.0010	-.0045	-.0445	
.274			.0130					
.345								
.390		.0137						-.2247
.400				-.0173	-.0070		-.0464	
.402		-.0061						
.503				-.0516	-.0422			-.2467
.550			-.2962					
.565								
.600								-.0537
.637		-.0734						
.650						-.0095		-.2092
.670								
.700								
.725				.0038	-.0148			
.750						.1292	.0250	
.760			.0237					
.775				.2020	.0792			
.793		.0183						
.828			.0776					
.834	-.0465							
.839		-.0050						
.850								
.857				-.0860	-.1246	-.1017		-.2087
.862								
.865	.0824							
.879		-.1070						
.900				-.1408			-.1391	
.905	-.1312		-.1488					
.919		-.1601						
.950			-.1114	-.1187	-.1061	-.1116		
.953								
.955	-.1432							
.965								
1.000			-.0158	-.0523			-.0279	





DATE 10 FEB 76 TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

(XEBL80)

AMES 11-073(0A148) -140A/B/C ORB LEFT WING BOT

ALPHA ( 4 ) = 7.903 BETA ( 1 ) = -7.896

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/8W .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CH

.950 -.0822 -.0497 -.0809

.953 -.0818

.955 -.1097

.955 -.1284

1.000

.0125 .0082 -.1281

ALPHA ( 4 ) = 7.912 BETA ( 2 ) = -3.851 MACH = .59626 Q = 593.85 P = 2386.1 RN/L = 4.8197

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/8W .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CH

.010

.020

.040

.050

.069

.080

.081

.086

.094

.150

.157

.163

.177

.229

.246

.250

.274

.315

.330

.400

.402

.503

.550

.565

.600

.637

.650

.670

.700

.725

.750

.760

.010

.020

.040

.050

.069

.080

.081

.086

.094

.150

.157

.163

.177

.229

.246

.250

.274

.315

.330

.400

.402

.503

.550

.565

.600

.637

.650

.670

.700

.725

.750

.760

.010

.020

.040

.050

.069

.080

.081

.086

.094

.150

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.163

.177

.229

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.250

.274

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.330

.400

.402

.503

.550

.565

.600

.637

.650

.670

.700

.725

.750

.760

.010

.020

.040

.050

.069

.080

.081

.086

.094

.150

.157

.163

.177

.229

.246

.250

.274

.315

.330

.400

.402

.503

.550

.565

.600

.637

.650

.670

.700

.725

.750

.760

.010

.020

.040

.050

.069

.080

.081

.086

.094

.150

.157

.163

.177

.229

.246

.250

.274

.315

.330

.400

.402

.503

.550

.565

.600

.637

.650

.670

.700

.725

.750

.760

(XEBL83)

ORB LEFT WING BOT

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

AMES 11-073(0A148) -140A/B/C

ALPHA ( 4 ) = 7.912 BETA ( 2 ) = -3.851

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

21/84 .2990 .3540 .4270 .5340 .6730 .7800 .8870 .9720

X/C4  
 .010 .020 .030 .040 .050 .060 .070 .080 .090  
 .100 .110 .120 .130 .140 .150 .160 .170 .180  
 .190 .200 .210 .220 .230 .240 .250 .260 .270  
 .280 .290 .300 .310 .320 .330 .340 .350 .360  
 .370 .380 .390 .400 .410 .420 .430 .440 .450  
 .460 .470 .480 .490 .500 .510 .520 .530 .540  
 .550 .560 .570 .580 .590 .600 .610 .620 .630  
 .640 .650 .660 .670 .680 .690 .700 .710 .720  
 .730 .740 .750 .760 .770 .780 .790 .800 .810  
 .820 .830 .840 .850 .860 .870 .880 .890 .900  
 .910 .920 .930 .940 .950 .960 .970 .980 .990  
 1.000

ALPHA ( 4 ) = 8.052 BETA ( 3 ) = .184 MACH = .5926 0 = 593.85 P = 2386.1 RN/L = 4.8197

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

21/84 .2990 .3540 .4270 .5340 .6730 .7800 .8870 .9720

X/C4  
 .010 .020 .030 .040 .050 .060 .070 .080 .090  
 .100 .110 .120 .130 .140 .150 .160 .170 .180  
 .190 .200 .210 .220 .230 .240 .250 .260 .270  
 .280 .290 .300 .310 .320 .330 .340 .350 .360  
 .370 .380 .390 .400 .410 .420 .430 .440 .450  
 .460 .470 .480 .490 .500 .510 .520 .530 .540  
 .550 .560 .570 .580 .590 .600 .610 .620 .630  
 .640 .650 .660 .670 .680 .690 .700 .710 .720  
 .730 .740 .750 .760 .770 .780 .790 .800 .810  
 .820 .830 .840 .850 .860 .870 .880 .890 .900  
 .910 .920 .930 .940 .950 .960 .970 .980 .990  
 1.000





DATE 10 FEB 75

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 3086

(XEBL80)

AMES 11-073(0A148) -140A/B/C ORB LEFT WING BOT

P = 593.85 Q = 2395.1 R<sub>N/L</sub> = 4.8197

ALPHA (°) = 8.043 BETA (°) = 8.283 MACH = .59626

SECTION : 11 LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BA	.2990	.3540	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.7552	-.6493	-.2892	.2727	.2757	.1756	.1100	
.020	.0000	-.4477	-.3232	.2849	.2881	.2724	.2052	-1.2850
.040		-.3415	.1748					
.050	-.2617			.2289	.2517	.2343	.1938	-.8721
.069				.1778				
.080			.1701					
.091		-.0264						
.095	-.1566							
.074				.1234	.1532	.1493	.0640	-.3941
.110								
.157		.1552						
.163			.1316					
.177	-.0112							
.229		.0293		.0964	.1052	.0877	.0233	-.3625
.246								
.250								
.274								
.345		.0905						
.350				.0495	.0600	-.0198		-.3490
.352			.0502					
.353				.0085	.0071			
.355			-.3113					
.357	-.0232							
.358								
.359				.0146				-.2487
.360								
.361				.0412	.0134			
.362						.1380	.0226	
.363			.0557					
.364		.0499		.2341	.1000			
.365			.1110					
.366	-.0284							
.367	.0253							
.368			-.0591	-.0943	-.0897			-.3591
.369								
.370			-.0601					
.371								
.372								
.373	.1154							
.374	-.0903							
.375			-.1102					-.1795
.376	-.1000							
.377		-.1119						
.378								
.379	-.1374							

DATE 10 FEB 76 TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

(XEBL80)

AMES 11-073(0A148) -140A/B/C ORB LEFT WING BOT

ALPHA ( 4 ) = 8.043 BETA ( 5 ) = 8.283

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/84 .2930 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CH  
 .950  
 .953  
 .955  
 .955  
 1.000  
 -.0846 -.0765 -.1362  
 -.0967  
 -.1282  
 -.1264  
 -.0095 -.0353 -.1915

ALPHA ( 5 ) = 11.974 BETA ( 1 ) = -7.860 MACH = .59650 Q = 594.19 P = 2385.7 RN/L = 4.8192

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/84 .2930 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CH  
 .010  
 .020  
 .040  
 .050  
 .069  
 .080  
 .081  
 .094  
 .150  
 .157  
 .163  
 .177  
 .229  
 .246  
 .274  
 .345  
 .390  
 .400  
 .422  
 .503  
 .510  
 .565  
 .600  
 .637  
 .650  
 .673  
 .703  
 .725  
 .750  
 .763  
 .1054 .5870 .5882 .5008 .4221  
 .3697 .5612 .5981 .5893 .5238  
 .4483 .4534 .5029 .5070 .4896  
 .3836  
 .3688  
 .2580  
 .3668  
 .2800  
 .2493  
 .2333  
 .2078  
 .1857  
 .1086 .1193  
 .3000 .3460 .3656 .3057  
 .2560 .2654 .2701 .2227  
 .1856 .2008 .1632  
 .1180  
 .0873  
 .1153  
 .0923  
 .2430 .1396  
 .1092

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DATE 10 FEB 75 TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

(XEBL80)

AMES 11-073(0A148) -140A/B/C ORB LEFT WING BOT

ALPHA ( 5 ) = 11.974 BETA ( 1 ) = 17.860

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BL .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.775 .3085 .1933  
 .793 .1071  
 .819 .1724  
 .834 .0316  
 .859 .0672  
 .883 .0005 -.0263 -.0236  
 .907 -.0016  
 .932 .1730  
 .955 -.0545  
 .979 -.0891  
 .995 -.0855  
 .999 -.1002  
 .999 -.0555 -.0406 -.0988  
 .999 -.0507  
 .999 -.0851  
 .999 -.0955  
 .999 .0142 .0165 -.2825  
 1.000

-.2926

-.1386

ALPHA ( 5 ) = 11.993 BETA ( 2 ) = -3.842 MACH = .59650 Q = 594.19 P = 2385.7 RN/L = 4.8199

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BL .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.010 -.5654 -.9106 -.1187 .4872 .4880 .3526 .2759  
 .020 .0000 -.3526 .2182 .5080 .5275 .5078 .4254 -1.1233  
 .040 .0400 -.2139 .3916 .4309 .4773 .4650 .4295  
 .050 -.0629  
 .069 .3649  
 .080 .3446  
 .081 .1657  
 .086 .0419  
 .094 .2951 .3277 .3427 .2631  
 .100  
 .107 .2697  
 .113 .3338  
 .117 .3339  
 .123 .2349  
 .129 .2389 .2474 .2490 .1894  
 .134 .2206  
 .139 .1959  
 .145  
 .150  
 .157  
 .163  
 .170  
 .177  
 .183  
 .189  
 .195  
 .200  
 .206  
 .212  
 .218  
 .224  
 .230  
 .236  
 .242  
 .248  
 .254  
 .260  
 .266  
 .272  
 .278  
 .284  
 .290  
 .296  
 .302  
 .308  
 .314  
 .320  
 .326  
 .332  
 .338  
 .344  
 .350  
 .356  
 .362  
 .368  
 .374  
 .380  
 .386  
 .392  
 .398  
 .404  
 .410  
 .416  
 .422  
 .428  
 .434  
 .440  
 .446  
 .452  
 .458  
 .464  
 .470  
 .476  
 .482  
 .488  
 .494  
 .500  
 .506  
 .512  
 .518  
 .524  
 .530  
 .536  
 .542  
 .548  
 .554  
 .560  
 .566  
 .572  
 .578  
 .584  
 .590  
 .596  
 .602  
 .608  
 .614  
 .620  
 .626  
 .632  
 .638  
 .644  
 .650  
 .656  
 .662  
 .668  
 .674  
 .680  
 .686  
 .692  
 .698  
 .704  
 .710  
 .716  
 .722  
 .728  
 .734  
 .740  
 .746  
 .752  
 .758  
 .764  
 .770  
 .776  
 .782  
 .788  
 .794  
 .800  
 .806  
 .812  
 .818  
 .824  
 .830  
 .836  
 .842  
 .848  
 .854  
 .860  
 .866  
 .872  
 .878  
 .884  
 .890  
 .896  
 .902  
 .908  
 .914  
 .920  
 .926  
 .932  
 .938  
 .944  
 .950  
 .956  
 .962  
 .968  
 .974  
 .980  
 .986  
 .992  
 .998  
 1.000

-.2815

-.1735

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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(XEBL80)

ALPHA ( 5 ) = 11.993 BETA ( 2 ) = -3.842

AMES 11-07310A148) -140A/B/C ORB LEFT WING BOT

SECTION ( 1 ) LEFT WING BOT SURF

DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.400  
.402  
.503  
.550  
.555  
.600  
.637  
.650  
.670  
.700  
.725  
.750  
.760  
.775  
.798  
.808  
.834  
.839  
.850  
.857  
.862  
.865  
.879  
.900  
.905  
.919  
.940  
.943  
.955  
.955  
1.000

.1689 .1855 .1295  
.0960 .1060  
.0561  
.1016  
.0848  
.1062  
.3110 .1792  
.1669  
.0639  
-.0091  
-.0715  
-.0536  
-.0597  
.0265  
-.0844  
-.2870

-.1992

.0561

-.1114

.2242 .1162

-.3369

-.1550

-.1171

-.2870

-.1550

-.1171

-.2870

-.1550

-.1171

-.2870

-.1550

-.1171

-.2870

-.1550

-.1171

-.2870

-.1550

-.1171

ALPHA ( 5 ) = 12.035 BETA ( 3 ) = .179 MACH = .594.19 P = 2385.7 RN/L = 4.8199

SECTION ( 1 ) LEFT WING BOT SURF

DEPENDENT VARIABLE CP

2Y/BW .2993 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.010  
.020  
.040  
.050  
.069  
.080

-.7954 -1.1290 -.3482 .3717 .3759 .1928 .1163  
-.0000 -.5459 .0487 .4402 .4125 .3153 -1.3447  
-.3754 .3162 .3943 .4292 .4108 .3577  
-.8401 .3573







DATE 10 FEB 76

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C ORB LEFT WING BOT

(XEBL80)

ALPHA ( 5 ) = 12.027 BETA ( 4 ) = 4.242

SECTION ( 1 ) LEFT WING BOT SURF

DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.250 -.0908 -.0600 -.1299

.953 -.0833

.955 -.1076

.955 -.1111

1.000 .0001 -.0300 -.2573

ALPHA ( 5 ) = 12.061 BETA ( 5 ) = 8.297 MACH = .59650 U = 594.19 P = 2385.7 RN/L = 4.8199

SECTION ( 1 ) LEFT WING BOT SURF

DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.010 -1.2601 -.7389 -.7767 .0633 .0678 -.2059 -.2812

.020 .0000 -.6591 -.3143 .2366 .2339 .1716 .0473 -1.7332

.040 .040 -.5419 .1142 .2807 .3133 .2726 .1876

.050 -.4420 .2527

.052 .2119

.054 -.1099

.056 -.2430

.058 .1703

.060 .2048

.062 .1356

.064 .1692

.066 .1397

.068 .1171

.070 .1254

.072 .0621

.074 .0695

.076 .0621

.078 .0695

.080 .0621

.082 .0695

.084 .0621

.086 .0695

.088 .0621

.090 .0695

.092 .0621

.094 .0695

.096 .0621

.098 .0695

.100 .0621

.102 .0695

.104 .0621

.106 .0695

.108 .0621

.110 .0695

.112 .0621

.114 .0695

.116 .0621

.118 .0695

.120 .0621

.122 .0695

.124 .0621

.126 .0695

.128 .0621

.130 .0695

.132 .0621

.134 .0695

REPRODUCIBILITY OF THE  
ORIGINAL PAGE IS POOR

DATE 10 FEB 76 TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

(XEBL80)

AMES 11-073(0A148) -140A/B/C ORB LEFT WING BOT

ALPHA ( 5 ) = 12.061 BETA ( 5 ) = 8.797

SECTION ( 1 ) LEFT WING BOT SURF	DEPENDENT VARIABLE CP			
2Y/E	.2990	.3640	.4270	.5340
				.6730
				.7800
				.8870
				.9720
X/C				
.775				.2692
.798				.1137
.808				
.834				.1469
.839				
.850				.0182
.857				.0810
.862				
.865				-.0315
.879				-.0276
.900				-.0764
.905				-.0693
.919				
.950				-.1014
.953				-.1022
.955				-.1043
.955				-.0964
.955				-.0886
.955				-.1405
.955				
.955				-.1143
.955				-.1107
.955				-.0220
.955				-.0655
.955				-.2095
.955				
.955				-.3641

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C ORB LEFT WING BOT

(XEBL81) ( 05 AUG 75 )

## REFERENCE DATA

SPEF = 2690.0000 SQ.FT.  
 LREF = 474.8000 IN.  
 BREF = 936.8680 IN.  
 SCALE = .0300

XMPP = 1076.6800 IN. XO  
 YMRP = .0000 IN. YO  
 ZMRP = 375.0000 IN. ZO

## PARAMETRIC DATA

RUDDER = 10.000  
 BDFLAP = -11.700  
 R-ELVN = 10.000  
 SPCBRK = .000  
 L-ELVN = -10.000  
 MACH = 1.400

ALPHA ( 1 ) = -3.955 BETA ( 1 ) = .178 MACH = 1.3929 P = 599.69 RN/L = 2.9281

## SECTION ( 1 ) LEFT WING BOT SURF

## DEPENDENT VARIABLE CP

2Y/BX .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.010	-.0997	-.1195	-.0964	-.2821	-.3951	-.2672	-.2487
.070	.0000	-.1226	-.1275	-.4195	-.4265	-.4486	-.5139
.040		-.1202	-.1907				
.050	-.1023			-.4368	-.4499	-.4787	-.4752
.069				-.3968			-.5281
.080		-.0585	-.1600				
.091							
.100	-.1056			-.3018	-.4064	-.4229	-.4344
.110							-.3187
.120		.0095	-.1376				
.130	-.0839	-.0795					
.140			-.1381	-.1662	-.3523	-.3790	-.4071
.150							-.4760
.160		-.1091	-.1227	-.1498	-.1638	-.3589	
.170				-.1161	-.1469		-.3680
.180		-.0660	-.3226			-.3353	
.190					-.2080		-.5575
.200				-.1747	-.1792		
.210						-.3976	-.5479
.220			-.1485	-.5536	-.3067		
.230		-.1157	-.4734				
.240	-.1369						
.250		-.3598		-.4728	-.4259	-.4958	
.260							
.270							
.280							
.290							
.300							
.310							
.320							
.330							
.340							
.350							
.360							
.370							
.380							
.390							
.400							
.410							
.420							
.430							
.440							
.450							
.460							
.470							
.480							
.490							
.500							

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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(XEBL81)

AMES 11-073(0A148) -140A/E/C ORB LEFT WING BOT

ALPHA ( 1 ) = -3.095 BETA ( 1 ) = .178

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW	.857							
	.862							
	.865							
	.879							
	.900							
	.905							
	.919							
	.930							
	.953							
	.955							
	.985							
	1.000							

ALPHA ( 2 ) = .028 BETA ( 1 ) = .177 MACH = 1.3894 Q = 599.62 P = 443.71 RN/L = 2.9315

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW	.010							
	.020							
	.040							
	.050							
	.060							
	.070							
	.080							
	.090							
	.100							
	.110							
	.120							
	.130							
	.140							
	.150							
	.160							
	.170							
	.180							
	.190							
	.200							
	.210							
	.220							
	.230							
	.240							
	.250							
	.260							
	.270							
	.280							
	.290							
	.300							
	.310							
	.320							
	.330							
	.340							
	.350							
	.360							
	.370							
	.380							
	.390							
	.400							

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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(XEBL81)

AMES 11-073(0A148) -140A/B/C ORB LEFT WING BOT

ALPHA ( 2 ) = .028 BETA ( 1 ) = .177

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/8X .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.637	.0108						
.650							
.670							
.700							
.725							
.750							
.760							
.775							
.798							
.809							
.834							
.839							
.850							
.857							
.862							
.868							
.873							
.895							
.919							
.930							
.933							
.935							
.955							
1.000							

ALPHA ( 3 ) = 2.945 BETA ( 1 ) = -3.872 MACH = 1.3917 Q = 599.67 P = 442.30 RN/L = 2.9225

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/8X .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.010	.0082	.3994	.2553	.1800	.1740	.2117	
.020	.0000	.3732	.1749	.1655	.0821	.0335	.0852
.040	.0498	.2140	.0488	.0174	.0155	.0270	.0485
.060							
.080							
.100							
.120							
.140							
.160							
.180							
.200							
.220							
.240							
.260							
.280							
.300							
.320							
.340							
.360							
.380							
.400							
.420							
.440							
.460							
.480							
.500							
.520							
.540							
.560							
.580							
.600							
.620							
.640							
.660							
.680							
.700							
.720							
.740							
.760							
.780							
.800							
.820							
.840							
.860							
.880							
.900							
.920							
.940							
.960							
.980							
1.000							

DATE 10 FEB 76 TABULATED PRESSURE DATA - 0A149 ( AMES 11-073-1 )

(XEE91)

AMES 11-073(0A149) -140A/B/C ORB LEFT WING BOT

ALPHA ( 3 ) = 3.945 BETA ( 1 ) = -3.872

SECTION 1 LEFT WING BOT SURF DEPENDENT VARIABLE CP

2V/BA .2930 .35-0 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.177	.0832						
.229	.0209	.0776					
.246			.0685	.0674	.0809	.0591	
.250		.0576					.0265
.274							
.345		.0667					
.390			.0603	.0770		.0552	
.400							-.0042
.503			.0629	.0749			
.560		-.4049				.0076	
.600		.0780			.0198		-.3716
.637				-.0234			
.650			-.0323		-.3135	-.3349	
.670							
.700							
.750		-.0601	-.4848	-.3212			
.760							
.775		-.0628					
.799							
.809		-.3774					
.834	-.0751						
.839		-.3577					
.857			-.4097	-.3202	-.4110		-.3567
.857			-.3945				
.862							
.865	-.3525						
.879		-.4008					-.4554
.900	-.2121		-.4423				
.905							
.919		-.3459					
.950			-.2742	-.3931	-.4723		
.951		-.2243					
.961		-.2329					
.965	-.3703						-.3554
.969		-.1622		-.2654			
.971							







(XEBL81)

AMES 11-073(0A148) -140A/B/C ORB LEFT WING BOT

ALPHA ( 3 ) = 3.932 BETA ( 3 ) = 4.246

SECTION 1 LEFT WING BOT SURF DEPENDENT VARIABLE CP

2478A .2090 .3540 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.775 -.4232 -.3110

.799

.819 -.0478 -.3585

.839

.859 -.0553

.879

.899 -.3440

.919

.939 -.3951

.959

.979 -.3428

.999

1.000 -.3586

1.010

1.020 -.1955

1.030

1.040 -.4342

1.050

1.060 -.3202

1.070

1.080 -.2547

1.090

1.100 -.2173

1.110

1.120 -.3479

1.130

1.140 -.4178

1.150

1.160 -.1595

1.170

1.180 -.1931

1.190

1.200 -.2581

1.210

1.220 -.1595

1.230

1.240 -.1931

1.250

1.260 -.2581

1.270

1.280 -.1595

1.290

1.300 -.1931

1.310

1.320 -.2581

1.330

1.340 -.1595

1.350

1.360 -.1931

1.370

1.380 -.2581

1.390

1.400 -.1595

1.410

1.420 -.1931

1.430

1.440 -.2581

1.450

1.460 -.1595

1.470

1.480 -.1931

1.490

1.500 -.2581

RN/L = 2.9159

P = 443.00

Q = 599.65

O = 1.3906

MACH = 1.09

MACH = 1.09

MACH = 1.09

MACH = 1.09

MACH = 1.09

MACH = 1.09

MACH = 1.09

MACH = 1.09

MACH = 1.09

MACH = 1.09

MACH = 1.09

MACH = 1.09

MACH = 1.09



(187X)

	ALPHA (5)	BETA (1)
	11.906	-3.008

SECTION 1 LEFT WING BOT SURF

2Y/BS	.2930	.3540	.4270	.5340	.6730	.7800	.8870	.9720
-------	-------	-------	-------	-------	-------	-------	-------	-------

31/10/20

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-3709





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 AMES 11-073(0A148) -140A/B/C ORB LEFT WING BOT (XEBL81)

ALPHA ( 5 ) = 11.887 BETA ( 3 ) = 4.249

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/24 .2970 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW  
 .775  
 .798  
 .808  
 .834  
 .839  
 .850  
 .857  
 .862  
 .865  
 .873  
 .900  
 .905  
 .919  
 .950  
 .953  
 .955  
 .965  
 1.000  
 .1121  
 .2378  
 .1004  
 .2658  
 .2927  
 .2516  
 .3047  
 .1188  
 .2155  
 .2344  
 .2898  
 .2381  
 .2919  
 .4135  
 .4232  
 .2120  
 .2948  
 .3542  
 .3145  
 .2927  
 .3564  
 .3951  
 .3624  
 .4059  
 .3058  
 .3910  
 .4219

ALPHA ( 6 ) = 15.870 BETA ( 1 ) = .160 MACH = 1.3887 Q = 599.91 P = 444.41 RN/L = 2.9068

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/24 .2930 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW  
 .010  
 .020  
 .040  
 .050  
 .063  
 .080  
 .091  
 .086  
 .094  
 .150  
 .157  
 .153  
 .177  
 .229  
 .246  
 .250  
 .274  
 .345  
 .390  
 .3123  
 .4107  
 .3004  
 .3332  
 .0448  
 .010  
 .091  
 .086  
 .094  
 .150  
 .157  
 .153  
 .177  
 .229  
 .246  
 .250  
 .274  
 .345  
 .390  
 .6719  
 .6426  
 .5752  
 .5174  
 .4657  
 .3748  
 .3233  
 .4120  
 .3830  
 .6719  
 .6962  
 .6871  
 .6196  
 .5336  
 .5072  
 .5463  
 .4861  
 .6924  
 .7072  
 .6690  
 .5565  
 .5913  
 .5463  
 .4861  
 .1553  
 .0192  
 .0334  
 .1763



DATE 10 FEB 76

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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(XEBL81)

AMES 11-073(0A148) -140A/B/C ORB LEFT WING BOT

ALPHA ( 6 ) = 15.870 BETA ( 1 ) = .160

SECTION ( 1 ) LEFT WING BOT SURF

DEPENDENT VARIABLE CP

2Y/BW	.2990	.3740	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.400								
.402								
.503			.4052	.4524	.5050		.4278	
.550				.4167	.4104			.1592
.555								
.600								
.637								
.650		.4052					.2793	
.670					.2667			
.700						.2432		
.725				.2318				
.750								
.760			.2069					
.775		.1995						
.798								
.808								
.834								
.849								
.850								
.857								
.862								
.865								
.879								
.900								
.905								
.919								
.950								
.953								
.955								
.965								
1.000								

- .5395

- .3721

- .3472

- .3688

- .3317

- .2850

- .2080

- .1691

- .2716

- .3319

- .2716

- .3212

- .3196

- .3599

- .3612

- .3252

- .1984

- .4102

DATE 10 FEB 76

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C ORB LEFT WING BOT (XEBL82) ( 05 AUG 75 )

## REFERENCE DATA

COEFF = 7000.0000 SQ.FT. XMRP = 1976.6000 IN. XO  
 CLIFF = 474.0000 IN. YMRP = .0000 IN. YO  
 BREF = 936.0690 IN. ZMRP = 375.0000 IN. ZO  
 SCALE = .0300

## PARAMETRIC DATA

RUDDER = 10.000 SPDBRK = .000  
 BDFLAP = -11.700 L-ELVN = -10.000  
 R-ELVN = 10.000 MACH = 1.250

ALPHA ( ) = -4.001 BETA ( ) = .172 MACH = 1.2466 Q = 600.03 P = 551.58 RN/L = 3.0277

## SECTION : 1) LEFT WING BOT SURF

## DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.010	-.1035	-.1334	-.0888	-.4106	-.5407	-.4071	-.3848	
.020	.0000	-.1433	-.1364	-.5636	-.5819	-.6081	-.6076	-.6745
.040		-.1341	-.2100	-.5324	-.6039	-.6393	-.6373	-.7005
.050	-.1208			-.5039				
.059			-.1929					
.090		-.0750						
.086	-.1216			-.2854	-.5164	-.5594	-.5812	-.3949
.094		.0023	-.1620					
.157								
.163	-.0911							
.229		-.1003		-.1927	-.3949	-.5040	-.5391	
.246			-.1513					-.8465
.250								
.274		-.1177		-.1474	-.1787		-.4745	
.345			-.1228					-.5872
.400			-.4374					
.402				-.1199	-.1412		-.3025	
.503								
.590		-.0716				-.1995		-.6651
.600								
.600				-.2017	-.1966			
.600						-.4593	-.5860	
.600			-.1257					
.600				-.6853	-.3589			
.600		-.1104						
.600			-.5908					
.600	-.1361							
.600		-.4815		-.5611	-.5154	-.5742		

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TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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(XEBL82)

AMES 11-073(0A148) -140A/B/C ORB LEFT WING BOT

ALPHA ( 1 ) = -4.001 BETA ( 1 ) = .172

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.857								
.862								
.865								
.879								
.900								
.925								
.949								
.953								
.973								
.979								
.985								
1.000								

ALPHA ( 2 ) = .004 BETA ( 1 ) = .171 MACH = 1.2457 Q = 599.87 P = 552.28 RVL = 3.0295

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.810								
.820								
.840								
.850								
.869								
.880								
.881								
.886								
.894								
.900								
.915								
.923								
.937								
.950								
.959								
.980								
.981								
.986								
.994								
1.000								

(XEBL82)

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )  
AMES 11-073(0A148) -100A/B/C ORB LEFT WING BOT

ALPHA ( 3 ) = 3.910 BETA ( 1 ) = .171

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BL .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW							
.637	.0168						
.650							
.670							
.700							
.725							
.750							
.760							
.775							
.799							
.809							
.834							
.839							
.850							
.857							
.862							
.865							
.879							
.900							
.905							
.919							
.930							
.953							
.955							
.965							
1.000							

ALPHA ( 3 ) = 3.910 BETA ( 1 ) = .171 MACH = 1.2454 Q = 599.62 P = 552.51 RN/L = 3.0273

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BL .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW							
.610							
.620							
.640							
.650							
.660							
.685							
.694							
.700							
.710							
.720							
.730							
.740							
.750							
.760							
.770							
.780							
.790							
.800							
.810							
.820							
.830							
.840							
.850							
.860							
.870							
.880							
.890							
.900							
.910							
.920							
.930							
.940							
.950							
.960							
.970							
.980							
.990							
1.000							

DATE 10 FEB 76 TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

(XEBL82)

AMES 11-073(0A148) -140A/B/C ORB LEFT WING BOT

ALPHA ( 3 ) = 3.910 BETA ( 1 ) = -3.880

SECTION 1 LEFT WING BOT SURF DEPENDENT VARIABLE CP

2V/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.177	.0722						
.223							
.245	-.0135	.0708					
.250			.0664	.0602	.0723	.0361	
.271		.0554					.0051
.345		.0533					
.390			.0585	.0889		.0434	
.400		.0582					-.0198
.403			.0671	.0790			
.450		-.4995				-.0048	
.455							
.471	.0855			-.0068			-.4582
.477				-.0415			
.480			-.0491			-.4042	-.4445
.487		-.0487					
.487			-.5784	-.3918			
.5377	-.0377	-.4785					
.5631	-.0631						
.5631	-.4251						
.5631		-.4917	-.3978	-.5166			
.5631		-.4800					-.4274
.5631							
.5631	-.4354						
.5631		-.4628				-.5658	
.5631	-.2592		-.5346				
.5631		-.5418					
.5631		-.4050					
.5631			-.2784	-.4027	-.5127		
.5631		-.2650					
.5631	-.2698						
.5631		-.1957		-.2836			-.2320
.5631	-.4683						

DATE 10 FEB 76

TABLED PRESSURE DATA - 04148 ( AXES 11-073-1 )  
 AXES 11-073(04148) -140A/B/C CRS LEFT WING BOT

(XEBL82)  
 P = 599.82 Q = 1.2454 R = 552.51 RN/L = 3.0275

SECTION ( LEFT WING BOT SURF	ALPHA ( 3 ) = 3.950	BETA ( 2 ) = .192	MACH = 1.2454	Q = 1.2454	Q = 599.82	P = 552.51	RN/L = 3.0275
24/84	.2350	.3540	.4270	.5340	.6730	.7800	.8970
AXIS	DEPENDENT VARIABLE CP	DEPENDENT VARIABLE CP	DEPENDENT VARIABLE CP	DEPENDENT VARIABLE CP	DEPENDENT VARIABLE CP	DEPENDENT VARIABLE CP	DEPENDENT VARIABLE CP
.010	-.0314	-.2350	.3776	.2955	.1673	.1584	.1926
.020	-.0000	-.1184	.3742	.1780	.1361	.0899	.0517
.040	-.0235	-.0748	.2485	.1112	.0393	.0661	.0599
.060				.0991			.0005
.080							
.100	-.0253	.0605	.1491	.0621	.0887	.0923	.0826
.120							-.0880
.140							
.160							
.180							
.200	.2050						
.220	-.0313	.0969	.0915	.0832	.0765	.0829	.0400
.240							-.0070
.260				.0941			
.280							
.300				.0844	.1112		.0683
.320							-.0215
.340				.0857	.0969		
.360				-.5253			-.0095
.380							
.400	.1089					-.0012	-.4982
.420							
.440				-.0387	-.0386		
.460						-.4068	-.4435
.480				-.0434	-.5785	-.3927	
.500							
.520				-.0451	-.4715		
.540							
.560	-.0657	-.4147					
.580				-.4848	-.3324	-.5149	
.600				-.4827			-.4713
.620							
.640	-.4376	-.4477					
.660				-.5411			-.5717
.680	-.2392						
.700				-.5374			
.720							
.740				-.4024			
.760							
.780							
.800							
.820							
.840							
.860							
.880							
.900							
.920							
.940							
.960							
.980							
.990							

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TABULATED PRESSURE DATA - 0A148 ( AMES 1:-073-1 )

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AMES 11-073(0A148) -140A/B/C ORB LEFT WING BOT

(XEBL82)

ALPHA ( 3 ) = 3.950 BETA ( 2 ) = .192

SECTION ( 1 ) LEFT WING BOT SURF

DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.930  
.953  
.955  
.955  
1.000

-4967

-3486

-2590

-2779 -4521 -5646

-2019

-2506

-2380

ALPHA ( 3 ) = 3.915 BETA ( 3 ) = 4.246 MACH = 1.2454 Q = 599.82 P = 552.51 RN/L = 3.0275

SECTION ( 1 ) LEFT WING BOT SURF

DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.910

.920

.940

.950

.959

.980

.981

.986

.987

.990

.992

.993

.994

.995

.996

.997

.998

.999

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DATE 10 FEB 76

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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(XEBL82)

AMES 11-073(0A148) -140A/B/C ORB LEFT WING BOT

ALPHA ( 3 ) = 3.915 BETA ( 3 ) = 4.245

SECTION ( 1 ) LEFT WING BOT SURF

DEPENDENT VARIABLE CP

21/84 .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.775	-.0401	-.5789	-.3887					
.798		-.4727						
.808								
.834	-.0634							
.839	-.4063							
.850		-.4786	-.3761	-.5208				
.857		-.4780						
.862								-.5000
.865	-.4347							
.879	-.4090							
.900	-.2352		-.5508				-.5754	
.905		-.5111						
.919	-.3971		-.2780	-.4720	-.5431			
.950		-.2644						
.953								
.955	-.4129							
.965	-.5184							
1.000		-.2006	-.2423	-.2638				

ALPHA ( 4 ) = 7.875 BETA ( 1 ) = .170 MACH = 1.2457 Q = 599.87 P = 552.28 RVL = 3.0295

SECTION ( 1 ) LEFT WING BOT SURF

DEPENDENT VARIABLE CP

21/84 .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.010	-.2202	-.4739	.2316	.5579	.5078	.5654	.5694	
.020	.0000	-.2054	.3460	.4503	.4517	.4586	.4735	-.0459
.040		-.1433	.3305	.3514	.3434	.3535	.3984	
.050	-.0205							.0196
.059				.2850				
.080			.2595					
.081		.0393						
.086								
.094	.0038							
.100								
.150								
.157								
.163								
.177		.2442						
.229	.0220		.2116					
.245				.2430	.2843	.3099	.3022	-.0592
.250		.1556						
.254			.2157	.2307	.2495	.2941	.2352	
.265								
.274								.0374
.300		.1954						



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(XEBL82)

ORB LEFT WING BOT

ALPHA ( 4 ) = 7.875 BETA ( 1 ) = .170

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2V/BW	.2930	.3540	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.400								
.422								
.503			.2181	.2419	.2947		.2168	
.550				.2135	.2013			.0258
.555								
.600								
.637								
.650								
.670								
.700								
.725								
.750								
.775								
.819								
.834								
.839								
.853								
.861								
.882								
.885								
.972								
.985								
.919								
.930								
.973								
.980								
1.000								
1.000								

ALPHA ( 5 ) = 11.893 BETA ( 1 ) = -3.862 MACH = 1.2456 P = 600.06 P = 552.51 P = 3.0278

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2V/BW	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.410								
.420								
.430								
.440								
.450								
.460								
.470								
.480								
.490								
.500								
.510								
.520								
.530								
.540								
.550								
.560								
.570								
.580								
.590								
.600								

DATE 10 FEB 76 TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )  
 AMES 11-073(0A148) -140A/B/C ORB LEFT WING BOT (XEBL82)

ALPHA ( 5 ) = 11.893 BETA ( 1 ) = -3.862

SECTION ( 1 ) LEFT WING BOT SURF	DEPENDENT VARIABLE CP			
2Y/BW	.2990	.3640	.4270	.5340 .6730 .7800 .8870 .9720
X/CW				
.081		.4057		
.086		.1604		
.094	.1019		.3989	.4631 .5013 .4549
.150				
.157		.3812		
.163				
.177		.3478		
.229	.1326			
.246		.2808		
.250			.3838	.4285 .4412 .3822
.274		.3428		
.345				.1278
.390		.3205		
.400			.3804	.4059 .3314
.402		.3686		
.503			.3050	.3004 .1224
.550				
.565				
.600				.1669
.637		.3125		
.650				.1524
.670				
.700			.1084	
.725				
.750			.1113	
.760				
.775		.0811		
.798				
.808				
.834		.0786		
.839	.0716			
.850				
.857				
.862				
.865				
.879				
.900				
.905				
.919				
.950				
.953				
.955				
.965				
.975				
.980				
.985				
.990				
.995				
1.000				

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## TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

(XE8L82)

AMES 11-073(0A148) -140A/B/C ORB LEFT WING BOT

P = 552.51 RN/L = 3.0278

ALPHA ( 5 ) = 11.948 BETA ( 2 ) = .178 MACH = 1.2456 Q = 600.06

## SECTION ( 1 ) LEFT WING BOT SURF

## DEPENDENT VARIABLE CP

2Y/BW	.2990	.3640	.4270	.5340	.6730	.7800	.9870	.9720
X/CW								
.010	-.3582	-.5044	.1077	.6367	.6530	.6806	.6591	
.020	.0000	-.2241	.2928	.5811	.6256	.6506	.6380	-.2027
.040		-.1510	.3806					
.050	-.0161			.4981	.5391	.5665	.5742	-.0435
.069				.4360				
.080								
.081			.3460					
.086		.0734						
.094	.0417			.3944	.4675	.4893	.4431	-.0648
.150								
.157								
.163		.3152						
.177		.3335						
.229	.0889							
.246		.2361		.3896	.4248	.4382	.3685	.0678
.250								
.274		.3475						
.345				.3750	.3953		.3082	
.390		.3254						.0682
.400			.3722					
.402				.3018	.2931			
.503								
.550								
.565			-.5862				.1909	
.600								
.637		.3097				.1380		-.4295
.670					.1177			
.700				.1175				
.705						-.3268	-.3612	
.750								
.760			.0896	-.5415	-.3142			
.775								
.798		.0862						
.808			-.3595					
.834	.0738							
.839		-.3600						
.850				-.4045	-.4681	-.4291		-.5027
.857			-.4064					
.862								
.955	-.3533							
.873		-.3681						
.900	-.1079		-.4768				-.5020	
.905								
.919		-.2848						

REPRODUCIBILITY OF THE  
ORIGINAL PAGE IS POOR

DATE 10 FEB 76

## TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C ORB LEFT WING BOT (XEBL82)

ALPHA ( 5 ) = 11.948 BETA ( 2 ) = .178

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.950

.953

.955

.955

1.000

-.3836

-.3344

-.4233

-.2329

-.3685

-.4855

ALPHA ( 5 ) = 11.969 BETA ( 3 ) = 4.251 MACH = 1.2456 Q = 607.06 P = 552.51 RN/L = 3.0278

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW .2930 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.010

.020

.040

.050

.059

.060

.081

.085

.094

.150

.157

.163

.177

.229

.246

.250

.274

.345

.390

.400

.402

.503

.550

.585

.600

.637

.650

.650

.700

.725

.750

.750

-.4802

-.5545

-.3363

-.2583

-.1039

.059

.060

.081

.085

.094

.150

.157

.163

.177

.229

.246

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.274

.345

.390

.400

.402

.503

.550

.585

.600

.637

.650

.650

.700

.725

.750

.750

-.0968

.5329

.5730

.5232

.5695

.4710

.5204

.5390

.5336

.4216

.3871

.4536

.4766

.4199

.3754

.4136

.4231

.3551

.3575

.3811

.2926

.2827

.2926

.2827

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.5329

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.5695

.4710

.5204

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.4216

.3871

.4536

.4766

.4199

.3754

.4136

.4231

.3551

.3575

.3811

.2926

.2827

-.0804

.1353

.1343

.1248

.1185

-.3349

-.3677

.0820

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DATE 10 FEB 76

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

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AMES 11-073(0A148) -140A/B/C ORB LEFT WING EOT

(XE9L82)

ALPHA ( 5 ) = 11.969 BETA ( 3 ) = 4.251

SECTION ( 1 ) LEFT WING BOT SURF

DEPENDENT VARIABLE CP

2Y/BA	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CM	.775	.798	.808	.834	.839	.850	.857	.862
	.865	.879	.900	.905	.919	.950	.953	.955
	.965	1.000						

- .5352 - .3162

- .3566

- .3519

- .3966

- .4022 - .4709 - .4319

- .3588

- .3579

- .1133

- .4409

- .4750

- .5091

- .2798

- .3631

- .5158 - .4479 - .5323

- .3317

- .4432

- .2546

- .3114

- .5208

- .5345

REFERENCE DATA

SREF = 2690.0000 SQ.FT.    XMRP = 1076.6800 IN. XO  
 LREF = 474.0000 IN.    YMRP = .0000 IN. YO  
 HREF = 591.0000 IN.    ZMRP = 375.0000 IN. ZO  
 SCALE = .0000

ALPHA ( ) = -3.943    BETA ( ) = .171    MACH = 1.0992    Q = 599.30    P = 708.59    RN/L = 3.1842

PARAMETRIC DATA

RUDDER = 10.000    SPDBRK = .000  
 BDFLAP = -11.700    L-ELVN = -10.000  
 R-ELVN = 10.000    MACH = 1.100

SECTION ( ) LEFT WING BOT SURF    DEPENDENT VARIABLE CP

21/84	.2990	.3540	.4270	.5340	.6730	.7800	.8870	.9720
X/CH								
.010	-.1333	-.1585	-.1043	-.6194	-.7786	-.6107	-.6183	
.020	.0000	-.1653	-.1403	-.7784	-.8179	-.8517	-.8617	-.9244
.040		-.1474	-.2477					
.050	-.1344			-.6868	-.8227	-.8778	-.8896	-.8864
.069				-.6346				
.080								
.081				-.1749				
.086		-.0420						
.094	-.1348							
.150				-.2702	-.6799	-.7708	-.8023	-.4903
.157		.0370						
.163								
.177			-.1728					
.229	-.1067							
.246		-.0773						
.250			-.1382					
.274				-.1800	-.2211	-.5853	-.7415	-.8133
.345		-.1019						
.390				-.1153	-.1107		-.3645	
.400			-.1009					-.6578
.402								
.503				-.1118	-.1407			
.540			-.5721				-.1089	
.544								
.600								
.637	-.0761							
.650								
.670								
.700				-.2442	-.2007			-.5480
.725								
.750								
.760			-.1430				-.5500	-.6955
.775				-.8936	-.5332			
.799		-.1339						
.809			-.7441					
.834								
.839	-.1413	-.6103						
.850				-.6962	-.6036	-.6950		

$$\text{ALPHA} (1) = -3.943 \quad \text{BETA} (1) = .171$$

SECTION ( LEFT WING BOT SURF

2Y/BW	.2990	.3540	.4270	.5340	.6730	.7800	.8870	.9720
-------	-------	-------	-------	-------	-------	-------	-------	-------

X/CW	- .7042	- .7878
.857		
.862		

- .7042

- .6033      - .6141

- .4454 - .7039 - .3617

-.3126	-.3598	-.3122
--------	--------	--------

ALPHA ( 2 )	•	.065	BETA ( 1 )	•	.171	MACH	•	1.0980	Q	•	599.15	P	•	710.01	RN/L	•	3.1985
-------------	---	------	------------	---	------	------	---	--------	---	---	--------	---	---	--------	------	---	--------

SECTION ( )	LEFT WING	BOT SURF	DEPENDENT VARIABLE CP
1	0.000	0.000	0.000
2	0.000	0.000	0.000
3	0.000	0.000	0.000
4	0.000	0.000	0.000
5	0.000	0.000	0.000
6	0.000	0.000	0.000
7	0.000	0.000	0.000
8	0.000	0.000	0.000
9	0.000	0.000	0.000
10	0.000	0.000	0.000
11	0.000	0.000	0.000
12	0.000	0.000	0.000
13	0.000	0.000	0.000
14	0.000	0.000	0.000
15	0.000	0.000	0.000
16	0.000	0.000	0.000
17	0.000	0.000	0.000
18	0.000	0.000	0.000
19	0.000	0.000	0.000
20	0.000	0.000	0.000
21	0.000	0.000	0.000
22	0.000	0.000	0.000
23	0.000	0.000	0.000
24	0.000	0.000	0.000
25	0.000	0.000	0.000
26	0.000	0.000	0.000
27	0.000	0.000	0.000
28	0.000	0.000	0.000
29	0.000	0.000	0.000
30	0.000	0.000	0.000
31	0.000	0.000	0.000
32	0.000	0.000	0.000
33	0.000	0.000	0.000
34	0.000	0.000	0.000
35	0.000	0.000	0.000
36	0.000	0.000	0.000
37	0.000	0.000	0.000
38	0.000	0.000	0.000
39	0.000	0.000	0.000
40	0.000	0.000	0.000
41	0.000	0.000	0.000
42	0.000	0.000	0.000
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46	0.000	0.000	0.000
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51	0.000	0.000	0.000
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63	0.000	0.000	0.000
64	0.000	0.000	0.000
65	0.000	0.000	0.000
66	0.000	0.000	0.000
67	0.000	0.000	0.000
68	0.000	0.000	0.000
69	0.000	0.000	0.000
70	0.000	0.000	0.000
71	0.000	0.000	0.000
72	0.000	0.000	0.000
73	0.000	0.000	0.000
74	0.000	0.000	0.000
75	0.000	0.000	0.000
76	0.000	0.000	0.000
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79	0.000	0.000	0.000
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82	0.000	0.000	0.000
83	0.000	0.000	0.000
84	0.000	0.000	0.000
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2Y/8W	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
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[illegible]

- .2952	- .2662	- .4621	- .4220	- .3276
.2269	- .2561	- .4036	- .5507	- .6026
.0646				
	- .2272	- .3633	- .4487	- .4761
				- .2138

- 1616 -

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**-.0633**

-0.0251 -0.0595 -0.0867 -0.1145

3.

**.0195**

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**-.0145**

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- 1713

DATE 10 FEB 76  
 TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )  
 AMES 11-073(0A148) -140A/B/C ORB LEFT WING BOT

(XE9L83)

ALPHA ( 2 ) = .065 BETA ( 1 ) = .171

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW							
.637	.0154						
.650							
.670							
.700							
.725							
.750							
.760							
.775							
.798							
.828							
.834							
.839							
.850							
.857							
.862							
.865							
.879							
.900							
.905							
.919							
.950							
.953							
.955							
.965							
1.000							

ALPHA ( 3 ) = 3.859 BETA ( 1 ) = -3.876 MACH = 1.0981 Q = 598.75 P = 709.30 RN/L = 3.1983

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW							
.010							
.020							
.040							
.050							
.069							
.080							
.091							
.095							
.094							
.150							
.157							
.163							



DATE 10 FEB 76

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 3122

(XEBL83)

AMES 11-07310A148) -140A/B/C ORB LEFT WING BOT

ALPHA ( 3 ) = 3.859 BETA ( 1 ) = -3.876

SECTION ( 1 ) LEFT WING BOT SURF

DEPENDENT VARIABLE CP

2Y/8W	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW								
.177			.0865					
.229	-.0403							
.246		.1015						
.250				.1515	.1489	.1397	.0728	
.274			.1501					-.0113
.345								
.330		.1653						
.400			.1948	.1738	.1733		.0944	
.402								-.0645
.503				.0984	.0738			
.550			-.6035					
.5435								
.606		.1310				-.0510		
.637								
.650					-.0523			-.5865
.670								
.700				-.1026				
.725						-.5302	-.6111	
.750			-.0402					
.760				-.7917	-.3589			
.775								
.759	-.0163							
.808			-.6620					
.834	-.0761							
.839								
.850		-.5460						
.857								
.862			-.6310					-.3320
.865	-.5776							
.879								
.900	-.3704			-.5365			-.2739	
.905			-.4154					
.919		-.4527						
.950								
.953			-.3322	-.3183	-.4723	-.2835		
.955								
.965	-.5622			-.2856				
1.000			-.2072		-.2539		-.2257	

DATE 10 FEB 76

AMES 11-073(OA148) -140A/B/C ORB LEFT WING BOT (XEBL83)

A-E-A (3) =	3.938	BETA (2) =	.189	MACH =	1.0981	Q =	598.75	P =	709.30	RN/L =	3.1983
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(58783X)

ORB LEFT WING BOT

SECTION 1 LEFT WING BOT SURF

24,24	.2999	.3640	.4270	.5340	.6730	.7800	.8870	.9720
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**X/CN**

.010	-.1637	-.1993	.4551	.2887	.2192	.2883	.3289
.020	.0000	-.0810	.4372	.1674	.1717	.2016	.1901
.040		-.0385	.2962				.0056
.050	-.0236			.1348	.1186	.1531	.1634
.069				.1258			.0020
.080			.1922				
.091		.1093					
.086	-.0817			.1635	.1805	.1844	.1269
.094							-.0674
.150							
.157							
.163		.2737					
.177			.1498				
-.0512							
.229		.1489		.1741	.1691	.1609	.0838
.246			.1735				
.250							-.0558
.274				.1785	.1810		.0850
.345		.1801	.1965	.1051	.0739		-.0957
.390				-.6824			
.400							
.402							
.503							
.550							
.565							
.600							
.637		.1339					
.650							
.670						-.0631	-.6160
.700				-.0967	-.0847		
.725							
.750						-.5392	-.6183
.760			-.0304	-.8032	-.3882		
.775							
.798		-.0145					
.808			-.6533				
.834	-.0669						
.839		-.5397					
.850				-.6216	-.5731	-.6829	
.857			-.6216				-.3240
.862							
.865	-.5705						
.879		-.5560		-.5803			-.3350
.900	-.3435		-.4509				
.905		-.5034					
.919							

AMES 11-073(OA148) -140A/B/C ORB LEFT WING BOT

ALPHA ( 3 ) =	3.908	BETA ( 2 ) =	.189
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## SECTION : 1) LEFT WING BOT SURF

## DEPENDENT VARIABLE CP

2Y/8W	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
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**X/CN**

950	-.3516	-.5607	-.3237
953	----		

1885-1886

9659 - 595

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0/93. =

PHA (3)

ALPHA ( 3 ) = 3.913 BETA  
SECTION ( 1 ) LEFT WING BOT SURF

## SECTION 1 LEFT WING BOT SURF

## DEPENDENT VARIABLE CP

2Y/8W				
.2990	.3640	.4270	.5340	.6730
				.7800
				.8870
				.9720

**MJ/X**

.010	- .3626	- .3317	.4122	.3872	.2795	.3350	.3486
.020							

.023	.0000	-.1771	.4389	.2771	2405	.2413	-.1464
.040		-.1246	.7500				

[illegible]

	1936	1937	1938
1936	.063	.1817	.1817
1937	.063	.1817	.1817
1938	.063	.1817	.1817

Year	Value
1966	.080
1970	-.1070

	.081	.2645	.1539
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.086  
.0957

5341. -

.130	.1842	.1863	.1817	.1248
.157				

163	3152	-1121
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Year	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100																																																																																																																																				
1977	1.177	1.183	1.189	1.195	1.201	1.207	1.213	1.219	1.225	1.231	1.237	1.243	1.249	1.255	1.261	1.267	1.273	1.279	1.285	1.291	1.297	1.303	1.309	1.315	1.321	1.327	1.333	1.339	1.345	1.351	1.357	1.363	1.369	1.375	1.381	1.387	1.393	1.399	1.405	1.411	1.417	1.423	1.429	1.435	1.441	1.447	1.453	1.459	1.465	1.471	1.477	1.483	1.489	1.495	1.501	1.507	1.513	1.519	1.525	1.531	1.537	1.543	1.549	1.555	1.561	1.567	1.573	1.579	1.585	1.591	1.597	1.603	1.609	1.615	1.621	1.627	1.633	1.639	1.645	1.651	1.657	1.663	1.669	1.675	1.681	1.687	1.693	1.699	1.705	1.711	1.717	1.723	1.729	1.735	1.741	1.747	1.753	1.759	1.765	1.771	1.777	1.783	1.789	1.795	1.801	1.807	1.813	1.819	1.825	1.831	1.837	1.843	1.849	1.855	1.861	1.867	1.873	1.879	1.885	1.891	1.897	1.903	1.909	1.915	1.921	1.927	1.933	1.939	1.945	1.951	1.957	1.963	1.969	1.975	1.981	1.987	1.993	1.999	2.005	2.011	2.017	2.023	2.029	2.035	2.041	2.047	2.053	2.059	2.065	2.071	2.077	2.083	2.089	2.095	2.101	2.107	2.113	2.119	2.125	2.131	2.137	2.143	2.149	2.155	2.161	2.167	2.173	2.179	2.185	2.191	2.197	2.203	2.209	2.215	2.221	2.227	2.233	2.239	2.245	2.251	2.257	2.263	2.269	2.275	2.281	2.287	2.293	2.299	2.305	2.311	2.317	2.323	2.329	2.335	2.341	2.347	2.353	2.359	2.365	2.371	2.377	2.383	2.389	2.395	2.401	2.407	2.413	2.419	2.425	2.431	2.437	2.443	2.449	2.455	2.461	2.467	2.473	2.479	2.485	2.491	2.497	2.503	2.509	2.515	2.521	2.527	2.533	2.539	2.545	2.551	2.557	2.563	2.569	2.575	2.581	2.587	2.593	2.599	2.605	2.611	2.617	2.623	2.629	2.635	2.641	2.647	2.653	2.659	2.665	2.671	2.677	2.683	2.689	2.695	2.701	2.707</

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DATE 10 FEB 75 TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

(XEBL83)

AMES 11-073(0A148) -140A/B/C ORB LEFT WING BOT

ALPHA ( 3 ) = 3.913 BETA ( 3 ) = 4.243

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CM	CP
.775	-.8194
.799	-.4095
.809	
.834	-.6634
.839	
.850	-.0723
.857	
.862	-.5337
.873	
.879	-.6384
.900	-.5643
.905	-.6960
.910	
.950	-.5724
.953	
.955	-.5117
.965	
1.000	-.3514
	-.5388
	-.3792
	-.6834
	-.4375
	-.3697
	-.5071
	-.6973
	-.2729
	-.2924
	-.3132
	-.4318
	-.4166

ALPHA ( 4 ) = 8.023 BETA ( 1 ) = .173 MACH = .0972 Q = 598.87 P = 710.71 RV/L = 3.1958

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/B4 .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CM	CP
.010	-.3405
.020	-.6500
.040	-.3181
.050	-.2385
.059	
.080	-.0919
.083	
.088	
.093	
.094	
.157	-.3511
.163	
.177	
.229	
.246	
.250	
.274	
.345	
.390	

DATE 10 FEB 76 TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

(XESL83)

AMES 11-073(0A148) -140A/B/C ORB LEFT WING BOT

ALPHA ( 4 ) = 8.023 BETA ( 1 ) = .173

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2530	.3640	.4270	.5340	.6730	.7800	.8870	.9720
.400				.2836	.2803		.1717	
.402			.3028					-.0433
.503				.1831	.1639			
.550								.0020
.565			-.7400					
.600								
.637		.2103			-.0191			-.5360
.650								
.670				-.0236	-.0155			
.700								
.725						-.5147	-.5695	
.750				-.0022				
.760					-.7596	-.5241		
.775								
.793		.0083						
.808			-.6177					
.834								
.839	-.0257	-.5220						
.850								
.857			-.5838		-.5942	-.4792	-.6397	
.882								-.4571
.885	-.5469							
.879		-.4862						
.900	-.2708			-.6423			-.6984	
.905			-.4245					
.919								
.950			-.3020		-.3248	-.5076	-.6991	
.953								
.955		-.3935						
.955	-.6203							
1.000		-.2245		-.2647			-.3751	

ALPHA ( 5 ) = 11.886 BETA ( 1 ) = -3.856 MACH = 1.0568 0 = 598.64 P = 710.95 RN/L = 3.1978

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW	.2530	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CM								
.010	-.2820	-.5853	.2503	.7664	.7617	.7531	.7070	
.020	.0000	-.2086	.4795	.7171	.7278	.7242	.6794	-.1876
.040		-.1280	.5745					
.050	.0206			.6208	.6271	.6293	.5988	
.069								-.0336
.090				.5526				

(XEBL83)

ORR LEFT WING BOT

TABULATED PRESSURE DATA - OA142 ( AMES 11-073-1 )

(XEBL83)

ALPHA ( 5 ) = 1.035 BETA ( 1 ) = -3.355

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

27/64 .2990 .3540 .4270 .5340 .6730 .7800 .8970 .9720

X/CW

.081	.5295							
.085	.2137							
.094	.0572		.4932	.5164	.5140	.4430		
.150								
.157	.4861							
.163								
.177	.4696							
.229	.0832							
.245	.4137		.4451	.4437	.4349	.3575		
.250								
.274	.4339							
.345								
.390	.4144							
.400	.3955		.3774	.3790		.2751		
.422								
.503	.2664		.2474					
.511								
.545	.7120							
.600								
.637	.2812							
.650								
.670								
.700			.0541	.0620				
.725								
.750								
.760	.0106							
.775								
.798	.0179							
.809								
.834								
.839								
.850								
.857								
.862								
.865								
.879								
.900								
.919								
.930								
.953								
.955								
.985								
1.000								

-.4747

DATE 10 FEB 76

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 312B

(XESLB3)

AMES 11-073(0A148) -140A/E/C ORB LEFT WING BOT

ALPHA ( 5 ) = 11.964 BETA ( 2 ) = .179 MACH = 1.0968 Q = 598.64 P = 710.95 RN/L = 3.1978

SECTION ( 1 ) LEFT WING BOT SURF

DEPENDENT VARIABLE CP

2Y/D4 .2300 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.010	-.5011	-.6587	.0077	.6915	.6950	.6574	.6078
.020	.0000	-.3329	.2932	.6819	.6907	.6743	-.3495
.040	-.2455	-.4967		.6104	.6266	.6054	.5661
.050	-.0899						-.1522
.069				.5539			
.080			.5069				
.081		.0928					
.085	-.0160						
.094				.4914	.5133	.5086	.4205
.150		.4212					-.0802
.157			.4708				
.163							
.177							
.229	.0454						
.246		.3951					
.250			.4400	.4439	.4444	.4262	.3409
.274							.0190
.345		.4159					
.390			.3673	.3778	.3767		.2538
.402							.0042
.503				.2684	.2432		
.550	-.7559						
.555							.0754
.537	.2863					.0815	-.5425
.550					.0608		
.570				.0657			
.700						-.4755	-.5231
.775			.0331	-.7225	-.4723		
.760		.0421					
.798							
.808			-.5470				
.934	.0207	-.4600					
.839				-.5502	-.6135	-.5951	
.850		-.5429					-.4837
.857							
.852	-.5097						
.855		-.4592					
.879	-.2039			-.6503			-.6636
.903			-.5567				
.905							
.919		-.3983					

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ORIGINAL PAGE IS POOR

DATE 10 FEB 75

TABULATED PRESSURE DATA - OA148 ( AMES 11-073-1 )

PAGE 3129

(XEBL83)

ALPHA ( 5 ) = 11.954 BETA ( 2 ) = .179

AMES 11-073(OA148) -140A/B/C ORB LEFT WING BOT

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW .2990 .3540 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.950 -.4915

.953 -.4517

.955 -.5589

.965 -.1947

1.000 -.2789

-.5556

ALPHA ( 5 ) = 11.963 BETA ( 3 ) = 4.251 MACH = 1.0963 Q = 598.64 P = 710.95 RN/L = 3.1978

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.010 -.6519

.020 -.1393

.040 -.5875

.050 -.4506

.069 -.3549

.087 -.5775

.081 -.5254

.086 -.4819

.094 -.0243

.157 .3854

.163 .4613

.177 .3770

.229 .4231

.245 .4217

.250 .4138

.274 .3965

.345 .3018

.390 .4075

.400 .3543

.402 .3481

.503 .2159

.550 .2523

.565 .2234

.590 .0505

.637 .2780

.650 .0619

.670 .0490

.700 .0542

.715 .0497

.750 -.5386

.760 -.5793



DATE 10 FEB 76

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 3130

(XEBL83)

AMES 11-073(0A148) -140A/B/C ORB LEFT WING BOT

ALPHA ( 5 ) = 11.963 BETA ( 3 ) = 4.251

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/DW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CM

.775							
.798	.0286						
.808							
.834							
.839	.0178						
.850							
.857							
.862							
.865							
.879							
.900							
.905							
.919							
.950							
.953							
.955							
.965							
1.000							

-.7216 -.4864

-.5445

-.4737

-.5292

-.4054

-.4025

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-.5657 -.6043 -.5972

-.5847

-.6546

-.6840

-.4852

-.5446

-.7068

**PAGE 3131**

(XEBL84) ( 05' AUG 75 )

### PARAMETRIC DATA

RUDDER =	10.000	SPOBRK =	.000
BOFLAP =	-11.700	L-ELVN =	-10.000
R-ELVN =	10.000	MACH	.900

R = 1059.2 RN/L = 3.5885

DEPENDENT VARIABLE CP

**.9720**

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4509.

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**-4696-**

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8418.

**ملفوظات حضرت مولانا**







TABLED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

ALPHA = 3 BETA ( 2 ) = .164 MACH = .89803 Q = 598.38 P = 1060.0 RV/L = 3.5814  
(XEBL84)

SECTION WING BOT SURF DEPENDENT VARIABLE CP

2V/2W .3290 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X124							
.010	-.0687	.0051	.3836	.1953	.1024	.1721	.1685
.020	.0000	.1077	.3631	.0722	.0635	.0516	.0274
.040	.0345	.1468	.2226	.0406	.0002	-.0095	-.0260
.060				.0221			-.2267
.080			.1093				
.100	.2249						
.120	.0461			.0257	.0113	-.0061	-.0766
.140							-.1868
.160	.2237						
.180	.0539						
.200	.1006						
.220	.0573			.0190	-.0149	-.0407	-.1141
.240	.0385						-.2667
.260							
.280	.0493			-.0161	-.0310		-.1336
.300							-.2634
.320				-.1184	-.1419		
.340	-.9589						
.360							
.380	-.0782					-.3164	
.400							-.5966
.420							
.440				-.3031			
.460							
.480							
.500							
.520							
.540							
.560							
.580							
.600							
.620							
.640							
.660							
.680							
.700							
.720							
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.760							
.780							
.800							
.820							
.840							
.860							
.880							
.900							
.920							
.940							
.960							
.980							
.1000							

DATE 10 FEB 76

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 3136

ALPHA ( 3 ) = 4.092 BETA ( 2 ) = .164

(XEBL84)

AMES 11-073(0A148) -140A/B/C ORB LEFT WING BOT

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/8W .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.950  
-.4889  
-.4262 -.4516 -.3679.953  
-.4122.955  
-.3749.965  
1.000.966  
-.2998.967  
-.2982.968  
-.2796

ALPHA ( 3 ) = 3.996 BETA ( 3 ) = 4.248 MACH = .89803 Q = 598.38 P = 1060.0 RN/L = 3.5814

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/8W .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.010

.020

.040

.060

.080

.100

.120

.140

.160

.180

.200

.220

.240

.260

.280

.300

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DATE 10 FEB 76 TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

(XEBL84)

AMES 11-073(0A148) -140A/B/C ORB LEFT WING BOT

ALPHA ( 3 ) = 3.996 BETA ( 3 ) = 4.248

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW .2930 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.775 -1.3217 -.7258  
 .798 -.1699 -.5946  
 .808  
 .834 -.1994  
 .839 -.8398  
 .850  
 .857 -.6153  
 .865  
 .879 -.8788  
 .900 -.5328  
 .905 -.6095  
 .919 -.5214  
 .933 -.6134  
 .950 -.4976  
 .955 -.4261  
 .965 -.4713  
 1.000 -.3122 -.2941 -.2722

-.3355

-.4269

-.4398 -.4640 -.3887

ALPHA ( 4 ) = 8.008 BETA ( 1 ) = .163 MACH = .89820 Q = 598.16 P = 1059.3 RV/L = 3.5792

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/BW .2990 .3640 .4270 .5340 .6730 .7800 .8870 .9720

X/CW

.010 -.3592 -.3854 .2841 .5064 .4504 .4776 .4321  
 .020 .0000 -.0931 .3961 .4034 .3509 .3871 .3453  
 .040 .0004 .3809 .3008 .2734 .2745 .2432  
 .050 -.0319  
 .069 .069  
 .080 .2452  
 .091 .2824  
 .096 .2303  
 .099 .0354  
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 .163 .3254 .2058  
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 .229 .1332  
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.1983 .1939 .1777

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.3008 .2734 .2745

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.5064 .4504 .4776

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DATE 10 FEB 76

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

PAGE 3138

(XEBL64)

AMES 11-073(0A148) -140A/B/C ORB LEFT WING BOT

ALPHA ( 4 ) = 8.008 BETA ( 1 ) = .163

SECTION ( 1 ) LEFT WING BOT SURF

DEPENDENT VARIABLE CP

2Y/B4	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/C4								
.400								
.402			.1222		.0846	.0728		-.0574
.503								
.550								
.565								
.600								
.637								
.650								
.670								
.700								
.725								
.750								
.760								
.775								
.798								
.808								
.834								
.839								
.850								
.857								
.862								
.879								
.900								
.905								
.919								
.950								
.953								
.955								
.965								
1.000								

X/C4

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-.2295

-.1978

-.1408

-1.3003

-.7348

-.6710

-.8601

-.6380

-.6933

-.7490

-.6133

-.4691

-.6074

-.4594

-.4831

-.4078

-.2820

-.2914

-.4017

-.4817

-.4082

-.4734

-.3854

ALPHA ( 5 ) = 11.969 BETA ( 1 ) = .169 MACH = .89670 Q = 597.36 P = 1061.4 RN/L = 3.5769

SECTION ( 1 ) LEFT WING BOT SURF

DEPENDENT VARIABLE CP

2Y/B4	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/C4								
.010								
.020								
.040								
.050								
.059								
.080								

X/C4

.010

.020

.040

.050

.059

.080

.0083

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.01957

.01005

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est. = 11:43:58.00 = 01-15-77

(XFX)

AKES 11-0730A:4B) - 110A/B/C 009 LEFT HING BOT

2015 108 6112 137 1 1011035

DEPENDENT VARIABLE CP

2Y/EN	.2930	.3540	.4270	.5340	.6730	.7800	.8870	.9720
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NO. 1

[illegible]

TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )

(XEBL85) ( 05 AUG 75 )

## REFERENCE DATA

2500.0000	SC.FT.	XNRP	=	1076.6800	IN. X0
17.6000	IN.	YNRP	=	.0000	IN. Y0
936.6580	IN.	ZNRP	=	375.0000	IN. Z0
.0300		SCALE	=		

$\Delta P_{DA} (1) = -3.903$      $\text{BETA} (1) = .164$      $\text{MACH} = .59620$      $Q = 593.85$      $P = 2386.4$      $\text{RN/L} = 4.8158$

## SECTION (1) LEFT WING BOT SURF

2990	.3640	.4270	.5340	.6730	.7820	.8870	.9720
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X/CW	-0.1103	-0.2522	-0.5926	-1.8352	-2.0513	-1.8922	-1.7060
0.010	0.0000	-0.2241	-0.6521	-1.4241	-1.7368	-1.5166	-1.5354
0.020		-0.2033	-0.6035				
0.030	-0.1123		-0.8148	-0.9222	-1.1137	-1.1522	
0.050							-0.7416
0.070							-0.9293

1.000	-	.6187		
1.000	-	.4638		
1.000	-	.1476		
1.000	-	.1159		
1.000	-	.4126	-	.4673
1.000	-	.5445	-	.5857
1.000	-	.3491	-	.3491

1.63	- .2208	- .3351	
1.77			
2.23	- .0975	- .2985	
2.46			
2.50		- .3093	- .3697
2.73		- .2722	- .4148
			- .4245

3.5	- .2370	- .2660	- .2918	- .3559	- .4790
3.5					
4.0					
4.0					
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557	- .2625	- .5213	
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553			- .7481
553			
553			- .4988

725	-	4495		
726	-	4057		
727	-	1.0980	-	5855
728	-	4566		
729	-	7854		
730	-			
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732	-			
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831	-			
832	-			
833	-			
834	-			

-.354	-.3859	-.7046	-.3940	-.3995	-.3556
-.239					
-.853					

## PARAMETRIC DATA

RUDDER	=	10.000	SFDRK	=
BDFLAP	=	-11.700	L-ELVN	=
R-ELVN	=	10.000	MACH	=

2386.4 RN/L

2

(XEBL85)

ORF LEFT WING BOT

TABULATED PRESSURE DATA - CA148 ( APES 11-173-1 )

ALPHA ( 1 ) = -3.903 BETA ( 1 ) = .164

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/5W	.2590	.3540	.4270	.5340	.6730	.7800	.8870	.9720
X/CW	.557	.567	.577	.587	.597	.607	.617	.627
	.637	.647	.657	.667	.677	.687	.697	.707
	.717	.727	.737	.747	.757	.767	.777	.787
	.797	.807	.817	.827	.837	.847	.857	.867
	.877	.887	.897	.907	.917	.927	.937	.947
	.957	.967	.977	.987	.997	1.007	1.017	1.027
	1.037	1.047	1.057	1.067	1.077	1.087	1.097	1.107

ALPHA ( 2 ) = .072 BETA ( 1 ) = .163 MACH = .59620 Q = 593.87 P = 2387.1 RV/L = 4.8288

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/5W	.2590	.3540	.4270	.5340	.6730	.7800	.8870	.9720
X/CW	.557	.567	.577	.587	.597	.607	.617	.627
	.637	.647	.657	.667	.677	.687	.697	.707
	.717	.727	.737	.747	.757	.767	.777	.787
	.797	.807	.817	.827	.837	.847	.857	.867
	.877	.887	.897	.907	.917	.927	.937	.947
	.957	.967	.977	.987	.997	1.007	1.017	1.027
	1.037	1.047	1.057	1.067	1.077	1.087	1.097	1.107

ALPHA ( 2 ) = .072 BETA ( 1 ) = .163 MACH = .59620 Q = 593.87 P = 2387.1 RV/L = 4.8288



TABLED PRESSURE DATA - OA148 ( AMES 11-073-1 )

(587B3X)

ORR LEFT WING BOT

ALPHA 31 = 4.977 BETA (1) = .160

SECTION 11 FEET WING BOT SURF

2012	2011	2010	2009	2008	2007	2006	2005	2004	2003	2002	2001	2000	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975	1974	1973	1972	1971	1970	1969	1968	1967	1966	1965	1964	1963	1962	1961	1960	1959	1958	1957	1956	1955	1954	1953	1952	1951	1950	1949	1948	1947	1946	1945	1944	1943	1942	1941	1940	1939	1938	1937	1936	1935	1934	1933	1932	1931	1930	1929	1928	1927	1926	1925	1924	1923	1922	1921	1920	1919	1918	1917	1916	1915	1914	1913	1912	1911	1910	1909	1908	1907	1906	1905	1904	1903	1902	1901	1900	1899	1898	1897	1896	1895	1894	1893	1892	1891	1890	1889	1888	1887	1886	1885	1884	1883	1882	1881	1880	1879	1878	1877	1876	1875	1874	1873	1872	1871	1870	1869	1868	1867	1866	1865	1864	1863	1862	1861	1860	1859	1858	1857	1856	1855	1854	1853	1852	1851	1850	1849	1848	1847	1846	1845	1844	1843	1842	1841	1840	1839	1838	1837	1836	1835	1834	1833	1832	1831	1830	1829	1828	1827	1826	1825	1824	1823	1822	1821	1820	1819	1818	1817	1816	1815	1814	1813	1812	1811	1810	1809	1808	1807	1806	1805	1804	1803	1802	1801	1800	1799	1798	1797	1796	1795	1794	1793	1792	1791	1790	1789	1788	1787	1786	1785	1784	1783	1782	1781	1780	1779	1778	1777	1776	1775	1774	1773	1772	1771	1770	1769	1768	1767	1766	1765	1764	1763	1762	1761	1760	1759	1758	1757	1756	1755	1754	1753	1752	1751	1750	1749	1748	1747	1746	1745	1744	1743	1742	1741	1740	1739	1738	1737	1736	1735	1734	1733	1732	1731	1730	1729	1728	1727	1726	1725	1724	1723	1722	1721	1720	1719	1718	1717	1716	1715	1714	1713	1712	1711	1710	1709	1708	1707	1706	1705	1704	1703	1702	1701	1700	1699	1698	1697	1696	1695	1694	1693	1692	1691	1690	1689	1688	1687	1686	1685	1684	1683	1682	1681	1680	1679	1678	1677	1676	1675	1674	1673	1672	1671	1670	1669	1668	1667	1666	1665	1664	1663	1662	1661	1660	1659	1658	1657	1656	1655	1654	1653	1652	1651	1650	1649	1648	1647	1646	1645	1644	1643	1642	1641	1640	1639	1638	1637	1636	1635	1634	1633	1632	1631	1630	1629	1628	1627	1626	1625	1624	1623	1622	1621	1620	1619	1618	1617	1616	1615	1614	1613	1612	1611	1610	1609	1608	1607	1606	1605	1604	1603	1602	1601	1600	1599	1598	1597	1596	1595	1594	1593	1592	1591	1590	1589	1588	1587	1586	1585	1584	1583	1582	1581	1580	1579	1578	1577	1576	1575	1574	1573	1572	1571	1570	1569	1568	1567	1566	1565	1564	1563	1562	1561	1560	1559</
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DATE 13 FEB 76 TABULATED PRESSURE DATA - 0A148 ( AMES 11-073-1 )  
 AMES 11-073(0A148) -140A/B/C ORB LEFT WING BOT

(XEBL85)

ALPHA ( 4 ) = 8.047 BETA ( 1 ) = .158

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/B4	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW	.950	.953	.955	.955	.955	.955	.955	.955

X/CW

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ALPHA ( 5 ) = 12.046 BETA ( 1 ) = .156 MACH = .59710 Q = 595.63 P = 2386.4 RN/L = 4.8340

SECTION ( 1 ) LEFT WING BOT SURF DEPENDENT VARIABLE CP

2Y/B4	.2990	.3640	.4270	.5340	.6730	.7800	.8870	.9720
X/CW	.950	.953	.955	.955	.955	.955	.955	.955

X/CW

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(58-183X)

REGULATED PRESSURE DATA - 0A148 (AMES 11-0000-1)

AMES 11-073(OA148) -140A/B/C C-9B LEFT WING BOT

ALPHA ( 5 ) =	12.046	BETA ( 1 ) =	.156
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SECTION	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
SECTION 1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	
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